Muthupandian Ashokkumar

List of Publications by Year
in descending order

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489	26,473	5782	13274
papers	citations	84 h-index	135 g-index

505	505	505	22911
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In silico approach for enhancing innate lipid content of Yarrowia lipolytica, by blocking the acyl-CoA oxidase-1 enzyme, using various analogous compounds of lipids. Journal of Biomolecular Structure and Dynamics, 2023, 41, 511-524.	2.0	2
2	Enrichment of hydrogen production from fruit waste biomass using ozonation assisted with citric acid. Waste Management and Research, 2022, 40, 556-564.	2.2	5
3	Revealing the stability of CuWO4/g-C3N4 nanocomposite for photocatalytic tetracycline degradation from the aqueous environment and DFT analysis. Environmental Research, 2022, 207, 112112.	3.7	28
4	Non-thermal Treatment of Milk: Ultrasonics and Megasonics. , 2022, , 724-732.		0
5	Sonoprocessing: From Concepts to Large-Scale Reactors. Chemical Reviews, 2022, 122, 3219-3258.	23.0	61
6	An alternative technique for determining the number density of acoustic cavitation bubbles in sonochemical reactors. Ultrasonics Sonochemistry, 2022, 82, 105872.	3.8	18
7	Transforming the Chemical Structure and Bioâ€Nano Activity of Doxorubicin by Ultrasound for Selective Killing of Cancer Cells. Advanced Materials, 2022, 34, e2107964.	11.1	12
8	Graphitic carbon nitride for photocatalytic hydrogen production. , 2022, , 17-68.		2
9	Ultrasound-Assisted Extracellular Polymeric Substance Removal from the Diatom Navicula sp.: A Route to Functional Polysaccharides and More Efficient Algal Biorefineries. ACS Sustainable Chemistry and Engineering, 2022, 10, 1795-1804.	3.2	2
10	Ultrasound-aided synthesis of gold-loaded boron-doped graphene quantum dots interface towards simultaneous electrochemical determination of guanine and adenine biomolecules. Ultrasonics Sonochemistry, 2022, 83, 105921.	3.8	9
11	A review on contemporary approaches in enhancing the innate lipid content of yeast cell. Chemosphere, 2022, 293, 133616.	4.2	14
12	A correlation between cavitation bubble temperature, sonoluminescence and interfacial chemistry â€“ A minireview. Ultrasonics Sonochemistry, 2022, 85, 105988.	3.8	20
13	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.	5.4	68
14	Synergistic impacts of sonolysis aided photocatalytic degradation of water pollutant over perovskite-type CeNiO₃nanospheres. New Journal of Chemistry, 2022, 46, 10117-10127.	1.4	13
15	Sonosynthesis of nanobiotics with antimicrobial and antioxidant properties. Ultrasonics Sonochemistry, 2022, 86, 106029.	3.8	4
16	Lysozyme microspheres incorporated with anisotropic gold nanorods for ultrasound activated drug delivery. Ultrasonics Sonochemistry, 2022, 86, 106016.	3.8	11
17	Ultrasound-induced protein restructuring and ordered aggregation to form amyloid crystals. European Biophysics Journal, 2022, 51, 335-352.	1.2	6
18	Turbulence-dependent reversible liquid-gel transition of micellar casein-stabilised emulsions. Food Hydrocolloids, 2022, 131, 107819.	5.6	5

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19	Confined microemulsion sono-polymerization of poly(ethylene glycol) nanoparticles for targeted delivery. Chemical Communications, 2022, 58, 7777-7780.	2.2	7
20	Metal Ion Augmented Mussel Inspired Polydopamine Immobilized 3D Printed Osteoconductive Scaffolds for Accelerated Bone Tissue Regeneration. ACS Applied Materials & Interfaces, 2022, 14, 28455-28475.	4.0	10
21	Ultrasonic Processing of Food Waste to Generate Value-Added Products. Foods, 2022, 11, 2035.	1.9	13
22	Halloysite nanotubes-based supercapacitor: preparation using sonochemical approach and its electrochemical performance. Energy, Ecology and Environment, 2021, 6, 13-25.	1.9	9
23	Sonochemical synthesis of aluminium and aluminium hybrids for remediation of toxic metals. Ultrasonics Sonochemistry, 2021, 70, 105299.	3.8	6
24	Fe(III)â€catalyzed degradation of persistent textile dyes by chlorine at slightly acidic conditions: the crucial role of Cl 2 â—ˆ radical in the degradation process and impacts of mineral and organic competitors. Asia-Pacific Journal of Chemical Engineering, 2021, 16, .	0.8	9
25	Upper rim modified calix[4]arene towards selective turn-on fluorescence sensor for spectroscopically silent metal ions. Inorganica Chimica Acta, 2021, 516, 120133.	1.2	8
26	Evaluation of biohydrogen production potential of fragmented sugar industry biosludge using ultrasonication coupled with egtazic acid. International Journal of Hydrogen Energy, 2021, 46, 1705-1714.	3.8	12
27	Mercury removal from aqueous solution using petal-like MoS2 nanosheets. Frontiers of Environmental Science and Engineering, 2021, 15, 1.	3.3	27
28	Ultrasound â€“ The Physical and Chemical Effects Integral to Food Processing. , 2021, , 329-358.		11
29	Platinum-free dye-sensitized solar cells by flower-like mixed-phase Co_xS_y/Ni_xS_y/Mo_xS_ycomposites. New Journal of Chemistry, 2021, 45, 1967-1976.	1.4	12
30	Sound methods for the synthesis of nanoparticles from biological molecules. Nanoscale Advances, 2021, 3, 4907-4917.	2.2	8
31	Sonochemical dosimetry: A comparative study of Weissler, Fricke and terephthalic acid methods. Ultrasonics Sonochemistry, 2021, 72, 105413.	3.8	24
32	Laser-assisted decoration of carbon nanotubes with palladium nanoparticles for application in electrochemical methanol oxidation. Bulletin of Materials Science, 2021, 44, 1.	0.8	4
33	Impact of bubble coalescence in the determination of bubble sizes using a pulsed US technique: Part 1 â€“ Argon bubbles in water. Ultrasonics Sonochemistry, 2021, 73, 105532.	3.8	5
34	Acoustic cavitation at low gas pressures in PZT-based ultrasonic systems. Ultrasonics Sonochemistry, 2021, 73, 105493.	3.8	9
35	Integrated technique of pulsed laser irradiation and sonochemical processes for the production of highly surface-active NiPd spheres. Chemical Engineering Journal, 2021, 411, 128486.	6.6	119
36	Antibacterial mechanism of ultrasound against Escherichia coli: Alterations in membrane microstructures and properties. Ultrasonics Sonochemistry, 2021, 73, 105509.	3.8	61

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37	Recent advances in the application of ultrasound in dairy products: Effect on functional, physical, chemical, microbiological and sensory properties. Ultrasonics Sonochemistry, 2021, 73, 105467.	3.8	93
38	Impact of bubble coalescence in the determination of bubble sizes using a pulsed US technique: Part 2 â€“ Effect of the nature of saturating gas. Ultrasonics Sonochemistry, 2021, 73, 105537.	3.8	1
39	Interplay between interfacial behaviour, cell structure and shear enables biphasic lipid extraction from whole diatom cells (Navicula sp.). Journal of Colloid and Interface Science, 2021, 589, 65-76.	5.0	8
40	Ultrasound expands the versatility of polydopamine coatings. Ultrasonics Sonochemistry, 2021, 74, 105571.	3.8	12
41	Application of advanced materials in sonophotocatalytic processes for the remediation of environmental pollutants. Journal of Hazardous Materials, 2021, 412, 125245.	6.5	215
42	Preparation of MgTi2O5 nanoparticles for sonophotocatalytic degradation of triphenylmethane dyes. Ultrasonics Sonochemistry, 2021, 75, 105585.	3.8	33
43	Multilayer co-encapsulation of probiotics and Î³-amino butyric acid (GABA) using ultrasound for functional food applications. LWT - Food Science and Technology, 2021, 146, 111432.	2.5	23
44	Ultrasonic microencapsulation of oil-soluble vitamins by hen egg white and green tea for fortification of food. Food Chemistry, 2021, 353, 129432.	4.2	22
45	Sonoâ€Fenton Chemistry Converts Phenol and Phenyl Derivatives into Polyphenols for Engineering Surface Coatings. Angewandte Chemie, 2021, 133, 21699-21705.	1.6	5
46	Ultrasound-Assisted Microencapsulation of Soybean Oil and Vitamin D Using Bare Glycogen Nanoparticles. Molecules, 2021, 26, 5157.	1.7	5
47	Sonoâ€Fenton Chemistry Converts Phenol and Phenyl Derivatives into Polyphenols for Engineering Surface Coatings. Angewandte Chemie - International Edition, 2021, 60, 21529-21535.	7.2	18
48	Editorial to surface tailored innovative materials and technologies for wastewater treatment. Environmental Pollution, 2021, 284, 117436.	3.7	1
49	Mechanism of low-frequency and high-frequency ultrasound-induced inactivation of soy trypsin inhibitors. Food Chemistry, 2021, 360, 130057.	4.2	21
50	Insight into the structural, chemical and surface properties of proteins for the efficient ultrasound assisted co-encapsulation and delivery of micronutrients. Food Chemistry, 2021, 362, 130236.	4.2	8
51	Recent developments on bismuth oxyhalides (BiOX; X = Cl, Br, I) based ternary nanocomposite photocatalysts for environmental applications. Chemosphere, 2021, 282, 131054.	4.2	87
52	Process Intensification Approach Using Microreactors for Synthesizing Nanomaterialsâ€"A Critical Review. Nanomaterials, 2021, 11, 98.	1.9	55
53	Innovative Technologies for Extraction and Microencapsulation of Bioactives from Plant-Based Food Waste and Their Applications in Functional Food Development. Foods, 2021, 10, 279.	1.9	64
54	Synthesis of Gold Nanosheets with Controlled Morphology by Combining a Natural Amino Acid with High-Frequency Ultrasound. ACS Sustainable Chemistry and Engineering, 2021, 9, 13953-13962.	3.2	10

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55	Acoustic cavitation-induced shear: a mini-review. Biophysical Reviews, 2021, 13, 1229-1243.	1.5	5
56	Turbulence-induced formation of emulsion gels. Ultrasonics Sonochemistry, 2021, 81, 105847.	3.8	3
57	Formation by high power ultrasound of aggregated emulsions stabilised with milk protein concentrate (MPC70). Ultrasonics Sonochemistry, 2021, 81, 105852.	3.8	7
58	Molecular regulatory mechanisms of Escherichia coli O157:H7 in response to ultrasonic stress revealed by proteomic analysis. Ultrasonics Sonochemistry, 2020, 61, 104835.	3.8	17
59	Sound-driven dissipative self-assembly of aromatic biomolecules into functional nanoparticles. Nanoscale Horizons, 2020, 5, 553-563.	4.1	33
60	Effect of ultrasound on binding interaction between emodin and micellar casein and its microencapsulation at various temperatures. Ultrasonics Sonochemistry, 2020, 62, 104861.	3.8	37
61	Size reduction of â€œreformed casein micellesâ€•by high-power ultrasound and high hydrostatic pressure. Ultrasonics Sonochemistry, 2020, 63, 104929.	3.8	20
62	Disperser coupled rhamnolipid disintegration of pulp and paper mill waste biosolid: Characterisation, methane production, energy assessment and cost analysis. Bioresource Technology, 2020, 297, 122545.	4.8	10
63	Ultrasonic emulsification: An overview on the preparation of different emulsifiers-stabilized emulsions. Trends in Food Science and Technology, 2020, 105, 363-377.	7.8	189
64	Facile synthesis of SnO2 nanoparticle intercalated unzipped multi-walled carbon nanotubes via an ultrasound-assisted route for symmetric supercapacitor devices. Sustainable Energy and Fuels, 2020, 4, 5120-5131.	2.5	4
65	Sono-Assembly of the [Arg-Phe]4 Octapeptide into Biofunctional Nanoparticles. Nanomaterials, 2020, 10, 1772.	1.9	7
66	Solubilisation of micellar casein powders by high-power ultrasound. Ultrasonics Sonochemistry, 2020, 67, 105131.	3.8	25
67	Synthesis of random copolymer using Zig-Zag Naphthodithiophene for bulk Heterojunction polymer solar cell applications. Journal of Polymer Research, 2020, 27, 1.	1.2	2
68	A simple and ubiquitous device for picric acid detection in latent fingerprints using carbon dots. Analyst, The, 2020, 145, 4532-4539.	1.7	37
69	Free Radical Generation from High-Frequency Electromechanical Dissociation of Pure Water. Journal of Physical Chemistry Letters, 2020, 11, 4655-4661.	2.1	23
70	rGO supported self-assembly of 2D nano sheet of (g-C3N4) into rod-like nano structure and its application in sonophotocatalytic degradation of an antibiotic. Ultrasonics Sonochemistry, 2020, 68, 105218.	3.8	36
71	Ultrasound-assisted production of biodiesel using engineered methanol tolerant Proteus vulgaris lipase immobilized on functionalized polysulfone beads. Ultrasonics Sonochemistry, 2020, 68, 105211.	3.8	19
72	Incorporating whey protein aggregates produced with heat and ultrasound treatment into rennet gels and model non-fat cheese systems. Food Hydrocolloids, 2020, 109, 106103.	5.6	21

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73	Pseudocapacitive performance of Mn3O4â€“SnO2 hybrid nanoparticles synthesized via ultrasonication approach. Journal of Applied Electrochemistry, 2020, 50, 609-619.	1.5	13
74	Formation of cheddar cheese analogues using canola oil and ultrasonication â€“ A comparison between single and double emulsion systems. International Dairy Journal, 2020, 105, 104683.	1.5	10
75	Influence of frequency sweep on sonochemiluminescence and sonoluminescence. Ultrasonics Sonochemistry, 2020, 64, 105047.	3.8	6
76	Sonoelectrochemistry for energy and environmental applications. Ultrasonics Sonochemistry, 2020, 63, 104960.	3.8	154
77	Synthesis of bio-functional nanoparticles from sono-responsive amino acids using high frequency ultrasound. Ultrasonics Sonochemistry, 2020, 63, 104967.	3.8	15
78	Effect of Bulk Viscosity and Emulsion Droplet Size on the Separation Efficiency of Model Mineral Oil-in-Water (O/W) Emulsions under Ultrasonic Standing Wave Fields: A Theoretical and Experimental Investigation. Industrial & Engineering Chemistry Research, 2020, 59, 7901-7912.	1.8	13
79	Synthesis of 3D marigold flower-like rGO/BN/Ni(OH)₂ternary nanocomposites for supercapacitor applications. Sustainable Energy and Fuels, 2020, 4, 3090-3101.	2.5	14
80	Amino Acid and Secondary Structure Integrity of Sonicated Milk Proteins. Australian Journal of Chemistry, 2020, 73, 170.	0.5	14
81	Effect of sonication, microwaves and high-pressure processing on ACE-inhibitory activity and antioxidant potential of Cheddar cheese during ripening. Ultrasonics Sonochemistry, 2020, 67, 105140.	3.8	46
82	A review on hybrid techniques for the degradation of organic pollutants in aqueous environment. Ultrasonics Sonochemistry, 2020, 67, 105130.	3.8	131
83	Food Waste and Manure. , 2020, , 899-938.		2
84	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.	2.7	100
85	Continuous flow synthesis of nanostructured bimetallic Pt-Mo/C catalysts in milli-channel reactor for PEM fuel cell application. Materials Chemistry and Physics, 2019, 237, 121854.	2.0	18
86	Effect of NaCl salt on sonochemistry and sonoluminescence in aqueous solutions. Ultrasonics Sonochemistry, 2019, 59, 104753.	3.8	28
87	Sono-Polymerization of Poly(ethylene glycol)-Based Nanoparticles for Targeted Drug Delivery. ACS Macro Letters, 2019, 8, 1285-1290.	2.3	22
88	Influence of mineral water constituents, organic matter and water matrices on the performance of the H₂O₂/IO₄^{â^'}-advanced oxidation process. Environmental Science: Water Research and Technology, 2019, 5, 1985-1992.	1.2	23
89	Hybrid Advanced Oxidation Processes Involving Ultrasound: An Overview. Molecules, 2019, 24, 3341.	1.7	73
90	Membrane Separations in the Dairy Industry. , 2019, , 267-304.		14

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91	Ultrasound and Sonochemistry for Radical Polymerization: Sound Synthesis. Chemistry - A European Journal, 2019, 25, 5372-5388.	1.7	138
92	Influence of ultrasound frequency and power on lactose nucleation. Journal of Food Engineering, 2019, 249, 34-39.	2.7	19
93	Cavitational activity in heterogeneous systems containing fine particles. Ultrasonics Sonochemistry, 2019, 58, 104599.	3.8	14
94	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.	3.9	48
95	High-intensity ultrasound: A novel technology for the development of probiotic and prebiotic dairy products. Ultrasonics Sonochemistry, 2019, 57, 12-21.	3.8	110
96	A luminescent onâ€“off probe based calix[4]arene linked through triazole with ruthenium(<scp>ii</scp>) polypyridine complexes to sense copper(<scp>ii</scp>) and sulfide ions. New Journal of Chemistry, 2019, 43, 9832-9842.	1.4	27
97	Rheological properties of concentrated slurries of harvested, incubated and ruptured Nannochloropsis sp. cells. BMC Chemical Engineering, 2019, 1, .	3.4	6
98	Exploring New Applications of Lysozyme-Shelled Microbubbles. Langmuir, 2019, 35, 9997-10006.	1.6	15
99	Frontispiece: Ultrasound and Sonochemistry for Radical Polymerization: Sound Synthesis. Chemistry - A European Journal, 2019, 25, .	1.7	0
100	H₂O₂/periodate (IO₄^{â•}): a novel advanced oxidation technology for the degradation of refractory organic pollutants. Environmental Science: Water Research and Technology, 2019, 5, 1113-1123.	1.2	43
101	Editorial. Ultrasonics Sonochemistry, 2019, 52, 1.	3.8	1
102	Sonochemically Initiated RAFT Polymerization in Organic Solvents. Macromolecules, 2019, 52, 185-195.	2.2	38
103	Ultrasonic pretreatment of food waste to accelerate enzymatic hydrolysis for glucose production. Ultrasonics Sonochemistry, 2019, 53, 77-82.	3.8	46
104	Ultrasound assisted synthesis of reduced graphene oxide (rGO) supported InVO4-TiO2 nanocomposite for efficient hydrogen production. Ultrasonics Sonochemistry, 2019, 53, 1-10.	3.8	50
105	Fuel waste to fluorescent carbon dots and its multifarious applications. Sensors and Actuators B: Chemical, 2019, 282, 972-983.	4.0	28
106	Synergistic effect of sono-photocatalytic process for the degradation of organic pollutants using CuO-TiO2/rGO. Ultrasonics Sonochemistry, 2019, 50, 218-223.	3.8	147
107	Fundamental and Applied Aspects of Ultrasonics and Sonochemistry. Springer Briefs in Molecular Science, 2019, , 1-19.	0.1	6
108	Electrochemical Performance of Starch-Polyaniline Nanocomposites Synthesized By Sonochemical Process Intensification. Journal of Renewable Materials, 2019, 7, 1279-1293.	1.1	8

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109	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.	2.9	146
110	Ultrasonic Production of Nano-emulsions for Bioactive Delivery in Drug and Food Applications. Springer Briefs in Molecular Science, 2018, , .	0.1	13
111	High frequency sonoATRP of 2-hydroxyethyl acrylate in an aqueous medium. Polymer Chemistry, 2018, 9, 2562-2568.	1.9	38
112	Screening of Isochrysis Strains and Utilization of a Two-Stage Outdoor Cultivation Strategy for Algal Biomass and Lipid Production. Applied Biochemistry and Biotechnology, 2018, 185, 1100-1117.	1.4	14
113	A review on BiVO 4 photocatalyst: Activity enhancement methods for solar photocatalytic applications. Applied Catalysis A: General, 2018, 555, 47-74.	2.2	512
114	Sono-transformation of tannic acid into biofunctional ellagic acid micro/nanocrystals with distinct morphologies. Green Chemistry, 2018, 20, 816-821.	4.6	39
115	Ultrasound-assisted synthesis of Ptâ€“Co/C bimetallic alloys for oxygen reduction in PEM fuel cells. Sustainable Energy and Fuels, 2018, 2, 1491-1499.	2.5	24
116	Inverse effects of the gas feed positioning on sonochemistry and sonoluminescence. Ultrasonics Sonochemistry, 2018, 46, 10-17.	3.8	13
117	Ultrasonically synthesized organic liquid-filled chitosan microcapsules: part 2: characterization using AFM (atomic force microscopy) and combined AFMâ€“confocal laser scanning fluorescence microscopy. Soft Matter, 2018, 14, 3192-3201.	1.2	12
118	Ultrasonically synthesized organic liquid-filled chitosan microcapsules: part 1: tuning physical & functional properties. Soft Matter, 2018, 14, 3202-3208.	1.2	4
119	Photocatalytic properties of hierarchical CuO nanosheets synthesized by a solution phase method. Journal of Environmental Sciences, 2018, 69, 115-124.	3.2	40
120	Synthesis of iron oxide nanoparticles in a continuous flow spiral microreactor and CorningÂ® advanced flowâ„¢ reactor. Green Processing and Synthesis, 2018, 7, 1-11.	1.3	30
121	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.	2.7	50
122	The inhibitory roles of native whey protein on the rennet gelation of bovine milk. Food Chemistry, 2018, 244, 36-43.	4.2	29
123	Structural and optical properties of Mg doped ZnS quantum dots and biological applications. Superlattices and Microstructures, 2018, 113, 236-243.	1.4	36
124	A study of the effectiveness and energy efficiency of ultrasonic emulsification. Physical Chemistry Chemical Physics, 2018, 20, 86-96.	1.3	62
125	Sonocrystallization of Lactose from Whey. , 2018, , .		5
126	Introduction to Ultrasound and Sonochemistry. Electrochemical Society Interface, 2018, 27, 43-46.	0.3	16

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127	Ultrasoundâ€Assisted Synthesis of Crossâ€Linked Poly(ethylene glycol) Nanostructures with Hydrophobic Core and Hydrophilic Shell. Macromolecular Chemistry and Physics, 2018, 219, 1800353.	1.1	9
128	Sono-RAFT Polymerization-Induced Self-Assembly in Aqueous Dispersion: Synthesis of LCST-type Thermosensitive Nanogels. Macromolecules, 2018, 51, 8862-8869.	2.2	53
129	The effect of high-intensity ultrasound on cell disruption and lipid extraction from high-solids viscous slurries of Nannochloropsis sp. biomass. Algal Research, 2018, 35, 341-348.	2.4	41
130	A Simple Discriminating pâ€tertâ€Butylcalix[4]arene Thiospirolactam Rhodamine B Based Colorimetric and Fluorescence Sensor for Mercury Ion and Live Cell Imaging Applications. ChemistrySelect, 2018, 3, 4413-4420.	0.7	6
131	Functionalised dairy streams: Tailoring protein functionality using sonication and heating. Ultrasonics Sonochemistry, 2018, 48, 499-508.	3.8	30
132	Emulsifying properties of ruptured microalgae cells: Barriers to lipid extraction or promising biosurfactants?. Colloids and Surfaces B: Biointerfaces, 2018, 170, 438-446.	2.5	28
133	Quantification of Cavitation Activity by Sonoluminescence To Study the Sonocrystallization Process under Different Ultrasound Parameters. Crystal Growth and Design, 2018, 18, 5108-5115.	1.4	21
134	Introductory text to sonochemistry. ChemTexts, 2018, 4, 1.	1.0	5
135	Phase-controlled synthesis of bismuth oxide polymorphs for photocatalytic applications. Materials Chemistry Frontiers, 2018, 2, 1664-1673.	3.2	62
136	Ultrasound-assisted fabrication of metal nano-porous shells across polymer beads and their catalytic activity for reduction of 4-nitrophenol. Ultrasonics Sonochemistry, 2018, 49, 63-68.	3.8	13
137	Introduction to Advanced Nanomaterials. , 2018, , 1-53.		17
138	Ultrasonic Food Processing. RSC Green Chemistry, 2018, , 316-354.	0.0	2
139	Ultrasonic enhancement of lipase-catalysed transesterification for biodiesel synthesis. Ultrasonics Sonochemistry, 2017, 34, 305-309.	3.8	69
140	Investigation on the pitting of potato starch granules during high frequency ultrasound treatment. Ultrasonics Sonochemistry, 2017, 35, 547-555.	3.8	35
141	Ultrasonic encapsulation â€“ A review. Ultrasonics Sonochemistry, 2017, 35, 605-614.	3.8	116
142	TiO2â€“NiO pâ€“n nanocomposite with enhanced sonophotocatalytic activity under diffused sunlight. Ultrasonics Sonochemistry, 2017, 35, 655-663.	3.8	78
143	Preface: Ultrasound in the processing of liquid foods, beverages and alcoholic drinks. Ultrasonics Sonochemistry, 2017, 38, 753.	3.8	17
144	Synthesis of Hierarchical Cobalt Phosphate Nanoflakes and Their Enhanced Electrochemical Performances for Supercapacitor Applications. ChemistrySelect, 2017, 2, 201-210.	0.7	100

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145	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.	1.7	65
146	Crumpled Cu 2 O-g-C 3 N 4 nanosheets for hydrogen evolution catalysis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 527, 34-41.	2.3	41
147	Recent advances in MoS 2 nanostructured materials for energy and environmental applications â€“ A review. Journal of Solid State Chemistry, 2017, 252, 43-71.	1.4	216
148	Graphene Quantum Dots Anchored Gold Nanorods for Electrochemical Detection of Glutathione. ChemistrySelect, 2017, 2, 4744-4752.	0.7	11
149	A Simple One-Step Ultrasonic Route To Synthesize Antioxidant Molecules and Fluorescent Nanoparticles from Phenol and Phenol-Like Molecules. ACS Sustainable Chemistry and Engineering, 2017, 5, 6081-6089.	3.2	18
150	Theory of Sonochemistry. Topics in Current Chemistry Collections, 2017, , 1-28.	0.2	10
151	Chitosan microspheres as a template for TiO₂and ZnO microparticles: studies on mechanism, functionalization and applications in photocatalysis and H₂S removal. RSC Advances, 2017, 7, 19373-19383.	1.7	25
152	Ultrasound-assisted oxidative-adsorptive desulfurization using highly acidic graphene oxide as a catalyst-adsorbent. Fuel, 2017, 210, 639-645.	3.4	60
153	Preparation of Fe2O3 nanoparticles by acoustic and hydrodynamic cavitation techniques and corrosion inhibition release studies using its nanocontainers. Protection of Metals and Physical Chemistry of Surfaces, 2017, 53, 850-858.	0.3	2
154	Sonoâ€RAFT Polymerization in Aqueous Medium. Angewandte Chemie - International Edition, 2017, 56, 12302-12306.	7.2	139
155	A model for the effect of bulk liquid viscosity on cavitation bubble dynamics. Physical Chemistry Chemical Physics, 2017, 19, 20635-20640.	1.3	28
156	Biodiesel synthesis assisted by ultrasonication using engineered thermo-stable Proteus vulgaris lipase. Fuel, 2017, 208, 430-438.	3.4	17
157	Comparison of the photocatalytic efficiencies of continuous stirred tank reactor (CSTR) and batch systems using a dispersed micron sized photocatalyst. RSC Advances, 2017, 7, 48222-48229.	1.7	19
158	Preparation of water-in-oil-in-water emulsions by low frequency ultrasound using skim milk and sunflower oil. Food Hydrocolloids, 2017, 63, 685-695.	5.6	82
159	Ultrasound-assisted mineralization of organic contaminants using a recyclable LaFeO3 and Fe3+/persulfate Fenton-like system. Ultrasonics Sonochemistry, 2017, 34, 924-930.	3.8	39
160	Improved synthesis of aluminium nanoparticles using ultrasound assisted approach and subsequent dispersion studies in di-octyl adipate. Ultrasonics Sonochemistry, 2017, 36, 59-69.	3.8	24
161	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.	5.3	91
162	Sonoâ€RAFT Polymerization in Aqueous Medium. Angewandte Chemie, 2017, 129, 12470-12474.	1.6	23

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163	The Role of Ultrasound on Advanced Oxidation Processes. Topics in Current Chemistry Collections, 2017, , 117-148.	0.2	8
164	Enhanced photocurrent generation in bacteriorhodopsin based bio-sensitized solar cells using gel electrolyte. Journal of Photochemistry and Photobiology B: Biology, 2016, 162, 208-212.	1.7	36
165	Removal of Heavy Metal from Wastewater. , 2016, , 813-839.		5
166	Sono-assembly of nanostructures via tyrosineâ€“tyrosine coupling reactions at the interface of acoustic cavitation bubbles. Materials Horizons, 2016, 3, 563-567.	6.4	36
167	The Role of Ultrasound on Advanced Oxidation Processes. Topics in Current Chemistry, 2016, 374, 75.	3.0	47
168	Ultrasonic synthesis of stable oil filled microcapsules using thiolated chitosan and their characterization by AFM and numerical simulations. Soft Matter, 2016, 12, 7212-7222.	1.2	13
169	Ultrasound-Assisted Synthesis of Nanoparticles for Energy and Environmental Applications. , 2016, , 423-456.		2
170	Ultrasonic Modification of Micelle Nanostructures. , 2016, , 491-524.		0
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