Sivakumar Manickam

List of Publications by Year
in descending order

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198 papers	8,764 citations	29994 54 h-index	54797 84 g-index

207 all docs	207 docs citations	207 times ranked	9283 citing authors

#	Article	IF	Citations
1	Surface-treated short sisal fibers and halloysite nanotubes for synergistically enhanced performance of polypropylene hybrid composites. Journal of Thermoplastic Composite Materials, 2022, 35, 2089-2104.	2.6	15
2	Biosustainable production of nanoparticles via mycogenesis for biotechnological applications: A critical review. Environmental Research, 2022, 204, 111963.	3.7	25
3	Highly Photoactive Titanium Dioxide Supported Platinum Catalyst: Synthesis Using Cleaner Ultrasound Approach. Catalysts, 2022, 12, 78.	1.6	8
4	Apoferritin and Dps as drug delivery vehicles: Some selected examples in oncology. Biochimica Et Biophysica Acta - General Subjects, 2022, 1866, 130067.	1.1	5
5	Improved Oral Delivery of Drugs Using Nanoemulsion. Advances in Chemical and Materials Engineering Book Series, 2022, , 93-117.	0.2	0
6	Sonoproduction of nanobiomaterials â€“ A critical review. Ultrasonics Sonochemistry, 2022, 82, 105887.	3.8	29
7	Bridge between mass transfer behavior and properties of bubbles under two-stage ultrasound-assisted physisorption of polyphenols using macroporous resin. Chemical Engineering Journal, 2022, 436, 135158.	6.6	55
8	Influence of sequential exogenous pretreatment and contact ultrasound-assisted air drying on the metabolic pathway of glucoraphanin in broccoli florets. Ultrasonics Sonochemistry, 2022, 84, 105977.	3.8	3
9	Morphological evaluation of hematite nanostructures and their shape dependent photocatalytic and magnetic properties. Chemical Engineering and Processing: Process Intensification, 2022, 175, 108909.	1.8	4
10	Geospatial distribution and health risk assessment of groundwater contaminated within the industrial areas: an environmental sustainability perspective. Chemosphere, 2022, 303, 134749.	4.2	8
11	Solar-Energy-Driven Cu-ZnO/TiO2 Nanocomposite Photocatalyst for the Rapid Degradation of Congo Red Azo Dye. Catalysts, 2022, 12, 605.	1.6	8
12	Fruit and Vegetable Peel-Enriched Functional Foods: Potential Avenues and Health Perspectives. Evidence-based Complementary and Alternative Medicine, 2022, 2022, 1-14.	0.5	22
13	Mechanical, thermal and dynamic-mechanical studies of functionalized halloysite nanotubes reinforced polypropylene composites. Polymers and Polymer Composites, 2021, 29, 1212-1221.	1.0	17
14	A recent trend: application of graphene in catalysis. Carbon Letters, 2021, 31, 177-199.	3.3	56
15	Kinetics and degradation of camphene with OH radicals and its subsequent fate under the atmospheric O2 and NO radicals - A theoretical study. Chemosphere, 2021, 267, 129250.	4.2	7
16	Application of ultrasound towards improving the composition of phenolic compounds and enhancing in vitro bioactivities of Pleurotus pulmonarius (Fr.) QuÃ©l extracts. Biocatalysis and Agricultural Biotechnology, 2021, 31, 101881.	1.5	5
17	Facile synthesis of Tb-decorated graphene oxide: electrochemical stability, hydrogen storage, and corrosion inhibition of Mg AZ13 alloy in 3.5% NaCl medium. RSC Advances, 2021, 11, 662-670.	1.7	1
18	Integrating gold nanoclusters, folic acid and reduced graphene oxide for nanosensing of glutathione based on â€œturn-offâ€•fluorescence. Scientific Reports, 2021, 11, 2375.	1.6	29

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19	Ultrasound-enhanced biosynthesis of uniform ZnO nanorice using Swietenia macrophylla seed extract and its in vitro anticancer activity. Nanotechnology Reviews, 2021, 10, 572-585.	2.6	8
20	Experimental and DFT studies of gadolinium decorated graphene oxide materials for their redox properties and as a corrosion inhibition barrier layer on Mg AZ13 alloy in a 3.5% NaCl environment. RSC Advances, 2021, 11, 22095-22105.	1.7	6
21	Stable W/O/W multiple nanoemulsion encapsulating natural tocotrienols and caffeic acid with cisplatin synergistically treated cancer cell lines (A549 and HEP G2) and reduced toxicity on normal cell line (HEK 293). Materials Science and Engineering C, 2021, 121, 111808.	3.8	19
22	Recent advancements in LCâ€MS based analysis of biotoxins: Present and future challenges. Mass Spectrometry Reviews, 2021, , .	2.8	14
23	Description and detection of excludons as transcriptional regulators in gram-positive, gram-negative and archaeal strains of prokaryotes. Biocatalysis and Agricultural Biotechnology, 2021, 32, 101933.	1.5	2
24	Ultrasound in the deproteinization process for chitin and chitosan production. Ultrasonics Sonochemistry, 2021, 72, 105417.	3.8	38
25	The COVID-19 Vaccines: Recent Development, Challenges and Prospects. Vaccines, 2021, 9, 349.	2.1	60
26	Comparison between airborne ultrasound and contact ultrasound to intensify air drying of blackberry: Heat and mass transfer simulation, energy consumption and quality evaluation. Ultrasonics Sonochemistry, 2021, 72, 105410.	3.8	79
27	A review on recent advances in hydrogen energy, fuel cell, biofuel and fuel refining via ultrasound process intensification. Ultrasonics Sonochemistry, 2021, 73, 105536.	3.8	59
28	Application of ultrasonication at different microbial growth stages during apple juice fermentation by Lactobacillus plantarum: Investigation on the metabolic response. Ultrasonics Sonochemistry, 2021, 73, 105486.	3.8	32
29	Highly Sensitive Electrochemical Biosensor Using Folic Acid-Modified Reduced Graphene Oxide for the Detection of Cancer Biomarker. Nanomaterials, 2021, 11, 1272.	1.9	23
30	Synthesis of graphene oxide and graphene quantum dots from miscanthus via ultrasound-assisted mechano-chemical cracking method. Ultrasonics Sonochemistry, 2021, 73, 105519.	3.8	55
31	Tuning the reactivity of tri-s-triazine, trinitro-tri-s-triazine and ternary tri-s-triazine graphitic C3N4 quantum dots through H-functionalized and B-doped complexes: A density functional study. Chemosphere, 2021, 272, 129901.	4.2	6
32	Influence of selenium precursors on the formation of iron selenide nanostructures (FeSe2): Efficient Electro-Fenton catalysts for detoxification of harmful organic dyestuffs. Chemosphere, 2021, 272, 129639.	4.2	27
33	The ultrasound extract of Pleurotus pulmonarius (Fr.) QuÃ©l alleviates metabolic syndromes in hyperlipidaemic Wistar-Kyoto rats fed with a high-fat diet. Biocatalysis and Agricultural Biotechnology, 2021, 34, 102019.	1.5	7
34	Fish pond water treatment using ultrasonic cavitation and advanced oxidation processes. Chemosphere, 2021, 274, 129702.	4.2	15
35	Ultrasound-assisted wet-impregnation of Agâ€“Co nanoparticles on cellulose nanofibers: Enhanced catalytic hydrogenation of 4-nitrophenol. Journal of Environmental Chemical Engineering, 2021, 9, 105719.	3.3	17
36	Fluorescence â€œturn-off/turn-onâ€•biosensing of metal ions by gold nanoclusters, folic acid and reduced graphene oxide. Analytica Chimica Acta, 2021, 1175, 338745.	2.6	12

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37	Application of supercritical fluid in the synthesis of graphene materials: a review. Journal of Nanoparticle Research, 2021, 23, 1.	0.8	5
38	Development of high-performance aluminium 6061/SiC nanocomposites by ultrasonic aided rheo-squeeze casting method. Ultrasonics Sonochemistry, 2021, 76, 105631.	3.8	21
39	Fermentation of blueberry juices using autochthonous lactic acid bacteria isolated from fruit environment: Fermentation characteristics and evolution of phenolic profiles. Chemosphere, 2021, 276, 130090.	4.2	54
40	Regulatory mechanisms of heme regulatory protein BACH1: a potential therapeutic target for cancer. Medical Oncology, 2021, 38, 122.	1.2	10
41	Development of an extended model for the permeation of environmentally hazardous CO2 gas across asymmetric hollow fiber composite membranes. Journal of Hazardous Materials, 2021, 417, 126000.	6.5	8
42	Emerging algal nanotechnology for high-value compounds: A direction to future food production. Trends in Food Science and Technology, 2021, 116, 290-302.	7.8	33
43	Sonochemical synthesis of highly efficient Ag3PO4-Guar gum nanocomposite with photo-oxidation property under visible light irradiation. Chemical Engineering and Processing: Process Intensification, 2021, 168, 108549.	1.8	3
44	Characterization halotolerant lactic acid bacteria Pediococcus pentosaceus HN10 and in vivo evaluation for bacterial pathogens inhibition. Chemical Engineering and Processing: Process Intensification, 2021, 168, 108576.	1.8	13
45	Physical stability and rheological behavior of Pickering emulsions stabilized by proteinâ€“polysaccharide hybrid nanoconjugates. Nanotechnology Reviews, 2021, 10, 1293-1305.	2.6	15
46	In vitro Digestion and Swelling Kinetics of Thymoquinone-Loaded Pickering Emulsions Incorporated in Alginate-Chitosan Hydrogel Beads. Frontiers in Nutrition, 2021, 8, 752207.	1.6	9
47	Sequential phenolic acid co-pigmentation pretreatment and contact ultrasound-assisted air drying to intensify blackberry drying and enhance anthocyanin retention: A study on mass transfer and phenolic distribution. Ultrasonics Sonochemistry, 2021, 80, 105788.	3.8	9
48	Recent ultrasound advancements for the manipulation of nanobiomaterials and nanoformulations for drug delivery. Ultrasonics Sonochemistry, 2021, 80, 105805.	3.8	39
49	Insights into the Role of Graphene/Grapheneâ€hybrid Nanocomposites in Antiviral Therapy. ChemBioEng Reviews, 2021, 8, 549.	2.6	1
50	Sonochemical approach for the synthesis of safflower oil based low fat emulsion: Effect of ultrasonic parameters. Materials Today: Proceedings, 2021, , .	0.9	1
51	Enzymatic pretreatment to enhance anaerobic bioconversion of high strength wastewater to biogas: A review. Science of the Total Environment, 2020, 713, 136373.	3.9	61
52	Multifunctional coatings based on smart nanocontainers. , 2020, , 135-162.		8
53	Facile sonochemical synthesis of Ag2O-guar gum nanocomposite as a visible light photocatalyst for the organic transformation reactions. Journal of Hazardous Materials, 2020, 385, 121621.	6.5	31
54	Investigations on the generation of oil-in-water (O/W) nanoemulsions through the combination of ultrasound and microchannel. Ultrasonics Sonochemistry, 2020, 69, 105258.	3.8	35

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55	The Range and Standards of Yang Dongfang Temporal Water Temperature Variation Angle I . Model Calculation. IOP Conference Series: Materials Science and Engineering, 2020, 721, 012032.	0.3	0
56	Sonoprocessing-assisted solvent extraction for the recovery of pigment-protein complex from Spirulina platensis. Chemical Engineering Journal, 2020, 398, 125613.	6.6	26
57	Controlled Hydrodynamic Cavitation: A Review of Recent Advances and Perspectives for Greener Processing. Processes, 2020, 8, 220.	1.3	74
58	Integrated ultrasound-assisted liquid biphasic flotation for efficient extraction of astaxanthin from Haematococcus pluvialis. Ultrasonics Sonochemistry, 2020, 67, 105052.	3.8	83
59	Removal of hexabromocyclododecane using ultrasound-based advanced oxidation process: Kinetics, pathways and influencing factors. Environmental Technology and Innovation, 2020, 17, 100605.	3.0	10
60	Ultrasound-assisted production of palm oil-based isotonic W/O/W multiple nanoemulsion encapsulating both hydrophobic tocotrienols and hydrophilic caffeic acid with enhanced stability using oil-based Sucragel. Ultrasonics Sonochemistry, 2020, 64, 104995.	3.8	16
61	Experimental and DFT studies on the ultrasonic energy-assisted extraction of the phytochemicals of Catharanthus roseus as green corrosion inhibitors for mild steel in NaCl medium. RSC Advances, 2020, 10, 5399-5411.	1.7	31
62	Synthesis of graphene: Potential carbon precursors and approaches. Nanotechnology Reviews, 2020, 9, 1284-1314.	2.6	72
63	Hydrodynamic cavitation assisted degradation of persistent endocrine-disrupting organochlorine pesticide Dicofol: Optimization of operating parameters and investigations on the mechanism of intensification. Ultrasonics Sonochemistry, 2019, 51, 526-532.	3.8	52
64	Heterogeneous Sono-Fenton treatment of decabromodiphenyl ether (BDE-209): Debromination mechanism and transformation pathways. Separation and Purification Technology, 2019, 209, 914-920.	3.9	24
65	Graphene-based 3D scaffolds in tissue engineering: fabrication, applications, and future scope in liver tissue engineering . International Journal of Nanomedicine, 2019, Volume 14, 5753-5783.	3.3	130
66	Kinetics and mechanism of low-frequency ultrasound driven elimination of trace level aqueous perfluorooctanesulfonic acid and perfluorooctanoic acid. Chemical Engineering and Processing: Process Intensification, 2019, 142, 107542.	1.8	18
67	Cavitation Technologyâ€"The Future of Greener Extraction Method: A Review on the Extraction of Natural Products and Process Intensification Mechanism and Perspectives. Applied Sciences (Switzerland), 2019, 9, 766.	1.3	109
68	Neodymium-decorated graphene oxide as a corrosion barrier layer on Ti6Al4V alloy in acidic medium. RSC Advances, 2019, 9, 8537-8545.	1.7	13
69	Isolation of protein from Chlorella sorokiniana CY1 using liquid biphasic flotation assisted with sonication through sugaring-out effect. Journal of Oceanology and Limnology, 2019, 37, 898-908.	0.6	28
70	Sono-nano chemistry: A new era of synthesising polyhydroxylated carbon nanomaterials with hydroxyl groups and their industrial aspects. Ultrasonics Sonochemistry, 2019, 51, 451-461.	3.8	23
71	Ultrasound-assisted water-in-palm oil nano-emulsion: Influence of polyglycerol polyricinoleate and NaCl on its stability. Ultrasonics Sonochemistry, 2019, 52, 353-363.	3.8	54
72	Yangâ€™s Dynamic Vertical Balance Process for the Content of Cd in a Marine Bay. Journal of Geoscience and Environment Protection, 2019, 07, 16-25.	0.2	0

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73	Inhibition and kinetic studies of cellulose- and hemicellulose-degrading enzymes ofGanoderma boninenseby naturally occurring phenolic compounds. Journal of Applied Microbiology, 2018, 124, 1544-1555.	1.4	17
74	Ultrasonic Production of Nano-emulsions for Bioactive Delivery in Drug and Food Applications. Springer Briefs in Molecular Science, 2018, , .	0.1	13
75	Sonochemical degradation of endocrine-disrupting organochlorine pesticide Dicofol: Investigations on the transformation pathways of dechlorination and the influencing operating parameters. Chemosphere, 2018, 204, 101-108.	4.2	53
76	Development of antler-type fruiting bodies of Ganoderma lucidum and determination of its biochemical properties. Fungal Biology, 2018, 122, 293-301.	1.1	18
77	Graphene: A versatile platform for nanotheranostics and tissue engineering. Progress in Materials Science, 2018, 91, 24-69.	16.0	127
78	Spatial-Temporal Migration of Cd in Marine Bay. IOP Conference Series: Earth and Environmental Science, 2018, 199, 022063.	0.2	0
79	Improved Mechanical Properties and Theoretical Prediction of Youngâ€™s Modulus of Polylactide Composites Reinforced with Sisal Fibers. Materials Today: Proceedings, 2018, 5, 22494-22505.	0.9	3
80	Morphology Water Absorption and Biodegradable Properties of Polylactide Biocomposites Reinforced with Sisal Fibers. Materials Today: Proceedings, 2018, 5, 22506-22516.	0.9	6
81	Fabrication and Characterization of an Electrospun PHA/Graphene Silver Nanocomposite Scaffold for Antibacterial Applications. Materials, 2018, 11, 1673.	1.3	42
82	Inhibition and kinetic studies of lignin degrading enzymes ofGanoderma boninenseby naturally occurring phenolic compounds. Journal of Applied Microbiology, 2018, 125, 876-887.	1.4	19
83	Role of benzoic and salicylic acids in the immunization of oil palm seedlings-challenged by Ganoderma boninense. Industrial Crops and Products, 2018, 122, 358-365.	2.5	17
84	Optimization of palm oil in water nano-emulsion with curcumin using microfluidizer and response surface methodology. LWT - Food Science and Technology, 2018, 96, 58-65.	2.5	75
85	Extraction of proteins from microalgae using integrated method of sugaring-out assisted liquid biphasic flotation (LBF) and ultrasound. Ultrasonics Sonochemistry, 2018, 48, 231-239.	3.8	56
86	Determination of the Biological Efficiency and Antioxidant Potential of Lingzhi or Reishi Medicinal Mushroom, Ganoderma lucidum (Agaricomycetes), Cultivated Using Different Agro-Wastes in Malaysia. International Journal of Medicinal Mushrooms, 2018, 20, 89-100.	0.9	11
87	Ultrasonic treatment of glassy carbon for nanoparticle preparation. Ultrasonics Sonochemistry, 2017, 35, 615-622.	3.8	9
88	Identification of active sonochemical zones in a triple frequency ultrasonic reactor via physical and chemical characterization techniques. Ultrasonics Sonochemistry, 2017, 35, 569-576.	3.8	21
89	Ultrasonically extracted Î²-d-glucan from artificially cultivated mushroom, characteristic properties and antioxidant activity. Ultrasonics Sonochemistry, 2017, 35, 531-540.	3.8	74
90	Graphene Metal Nanoclusters in Cutting-Edge Theranostics Nanomedicine Applications. Advanced Structured Materials, 2017, , 429-477.	0.3	0

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91	Optimization of ultrasound assisted extraction (UAE) of Î²- d -glucan polysaccharides from Ganoderma lucidum for prospective scale-up. Resource-efficient Technologies, 2017, 3, 46-54.	0.1	17
92	State of the art and recent advances in the ultrasound-assisted synthesis, exfoliation and functionalization of graphene derivatives. Ultrasonics Sonochemistry, 2017, 39, 478-493.	3.8	146
93	Hydration or hydroxylation: direct synthesis of fullerenol from pristine fullerene [C₆₀] via acoustic cavitation in the presence of hydrogen peroxide. RSC Advances, 2017, 7, 31930-31939.	1.7	40
94	Recent advancements in the sonophotocatalysis (SPC) and doped-sonophotocatalysis (DSPC) for the treatment of recalcitrant hazardous organic water pollutants. Ultrasonics Sonochemistry, 2017, 36, 481-496.	3.8	104
95	Acoustic cavitation induced generation of stabilizer-free, extremely stable reduced graphene oxide nanodispersion for efficient delivery of paclitaxel in cancer cells. Ultrasonics Sonochemistry, 2017, 36, 129-138.	3.8	50
96	Development of silane grafted halloysite nanotube reinforced polylactide nanocomposites for the enhancement of mechanical, thermal and dynamic-mechanical properties. Applied Clay Science, 2017, 135, 583-595.	2.6	97
97	Enhancements in crystallinity, thermal stability, tensile modulus and strength of sisal fibres and their PP composites induced by the synergistic effects of alkali and high intensity ultrasound (HIU) treatments. Ultrasonics Sonochemistry, 2017, 34, 729-742.	3.8	89
98	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
99	Understanding, Prospects and Constraints of Emerging Nanotechnology. Springer Proceedings in Physics, 2017, , 39-48.	0.1	0
100	Conjugation of insulin onto the sidewalls of single-walled carbon nanotubes through functionalization and diimide-activated amidation. International Journal of Nanomedicine, 2016, 11, 1607.	3.3	19
101	The biogenic synthesis of a reduced graphene oxideâ€“silver (RGOâ€“Ag) nanocomposite and its dual applications as an antibacterial agent and cancer biomarker sensor. RSC Advances, 2016, 6, 36576-36587.	1.7	97
102	Sonosynthesis of cellulose nanoparticles (CNP) from kenaf fiber: Effects of processing parameters. Fibers and Polymers, 2016, 17, 1352-1358.	1.1	24
103	Ultrasonic Process Intensification for the Efficient Extraction of Nutritionally Active Ingredients of Polysaccharides from Bioresources. , 2016, , 1271-1286.		0
104	Microwave-assisted extraction of polysaccharides from Cyphomandra betacea and its biological activities. International Journal of Biological Macromolecules, 2016, 92, 682-693.	3.6	61
105	Exceedingly Higher co-loading of Curcumin and Paclitaxel onto Polymer-functionalized Reduced Graphene Oxide for Highly Potent Synergistic Anticancer Treatment. Scientific Reports, 2016, 6, 32808.	1.6	84
106	Curcumin-loaded sterically stabilized nanodispersion based on non-ionic colloidal system induced by ultrasound and solvent diffusion-evaporation. Pure and Applied Chemistry, 2016, 88, 43-60.	0.9	20
107	Process intensification of anaerobically digested palm oil mill effluent (AAD-POME) treatment using combined chitosan coagulation, hydrogen peroxide (H2O2) and Fentonâ€™s oxidation. Clean Technologies and Environmental Policy, 2016, 18, 219-230.	2.1	36
108	Optimization of ultrasound induced emulsification on the formulation of palm-olein based nanoemulsions for the incorporation of antioxidant Î²-d-glucan polysaccharides. Ultrasonics Sonochemistry, 2016, 31, 71-84.	3.8	79

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109	Effect of ozone gas as an elicitor to enhance the bioactive compounds in Ganoderma lucidum. Postharvest Biology and Technology, 2016, 117, 81-88.	2.9	41
110	A novel hybrid approach of activated carbon and ultrasound cavitation for the intensification of palm oil mill effluent (POME) polishing. Journal of Cleaner Production, 2016, 112, 1218-1226.	4.6	60
111	Investigation of Requisites for the Optimal Mycelial Growth of the Lingzhi or Reishi Medicinal Mushroom, Ganoderma lucidum (Agaricomycetes), on Oil Palm Biomass in Malaysia. International Journal of Medicinal Mushrooms, 2016, 18, 935-943.	0.9	5
112	Effects of axial circulation and dispersion geometry on the scaleâ€up of ultrasonic extraction of polysaccharides. AICHE Journal, 2015, 61, 1483-1491.	1.8	14
113	Exceedingly biocompatible and thin-layered reduced graphene oxide nanosheets using an eco-friendly mushroom extract strategy. International Journal of Nanomedicine, 2015, 10, 1505.	3.3	122
114	Nanomedicine in Theranostics. , 2015, , 195-213.		7
115	Variation in performance at different positions of an ultrasonic VialTweeter â€“ A study based on various physical and chemical activities. Ultrasonics Sonochemistry, 2015, 27, 165-170.	3.8	11
116	Regulation of inducible enzymes and suppression of anthracnose using submicron chitosan dispersions. Scientia Horticulturae, 2015, 193, 381-388.	1.7	21
117	A revisit to the separation of a binary mixture of ethanolâ€“water using ultrasonic distillation as a separation process. Chemical Engineering and Processing: Process Intensification, 2015, 87, 45-50.	1.8	15
118	Functionalized fullerene (C 60) as a potential nanomediator in the fabrication of highly sensitive biosensors. Biosensors and Bioelectronics, 2015, 63, 354-364.	5.3	163
119	Ultrasonic Process Intensification for the Efficient Extraction of Nutritionally Active Ingredients of Polysaccharides from Bioresources. , 2015, , 1-16.		1
120	Using Nanoparticle Tracking Analysis (NTA) to Decipher Mucoadhesion Propensity of Curcumin-Containing Chitosan Nanoparticles and Curcumin Release. Journal of Dispersion Science and Technology, 2014, 35, 1201-1207.	1.3	16
121	Cavitation technology â€“ A greener processing technique for the generation of pharmaceutical nanoemulsions. Ultrasonics Sonochemistry, 2014, 21, 2069-2083.	3.8	218
122	Ultrasound-Assisted Chitosanâ€“Surfactant Nanostructure Assemblies: Towards Maintaining Postharvest Quality of Tomatoes. Food and Bioprocess Technology, 2014, 7, 2102-2111.	2.6	48
123	Role of H2O2 in the fluctuating patterns of COD (chemical oxygen demand) during the treatment of palm oil mill effluent (POME) using pilot scale triple frequency ultrasound cavitation reactor. Ultrasonics Sonochemistry, 2014, 21, 1519-1526.	3.8	50
124	Double Layer Coatings: A New Technique for Maintaining Physico-Chemical Characteristics and Antioxidant Properties of Dragon Fruit During Storage. Food and Bioprocess Technology, 2014, 7, 2366-2374.	2.6	36
125	Interfacial film stabilized W/O/W nano multiple emulsions loaded with green tea and lotus extracts: systematic characterization of physicochemical properties and shelf-storage stability. Journal of Nanobiotechnology, 2014, 12, 20.	4.2	35
126	Intensification of synthesis of biodiesel from palm oil using multiple frequency ultrasonic flow cell. Fuel Processing Technology, 2014, 128, 388-393.	3.7	60

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127	Induction of lignin and pathogenesis related proteins in dragon fruit plants in response to submicron chitosan dispersions. Crop Protection, 2014, 63, 83-88.	1.0	49
128	Efficacy of curative applications of submicron chitosan dispersions on anthracnose intensity and vegetative growth of dragon fruit plants. Crop Protection, 2014, 62, 129-134.	1.0	17
129	Development of Multifunctional Nanomaterials by Cavitation. , 2014, , 1-28.		2
130	Graphene and Graphene Oxide as a Docking Station for Modern Drug Delivery System. Current Drug Delivery, 2014, 11, 701-718.	0.8	66
131	A novel and facile liquid whistle hydrodynamic cavitation reactor to produce submicron multiple emulsions. AICHE Journal, 2013, 59, 155-167.	1.8	44
132	Improved functionalization and recovery of carboxylated carbon nanotubes using the acoustic cavitation approach. Chemical Physics Letters, 2013, 557, 97-101.	1.2	23
133	Effectiveness of submicron chitosan dispersions in controlling anthracnose and maintaining quality of dragon fruit. Postharvest Biology and Technology, 2013, 86, 147-153.	2.9	60
134	Impact of process parameters in the generation of novel aspirin nanoemulsions â€“ Comparative studies between ultrasound cavitation and microfluidizer. Ultrasonics Sonochemistry, 2013, 20, 485-497.	3.8	194
135	Mechanistic investigation of the sonochemical synthesis of zinc ferrite. Ultrasonics Sonochemistry, 2013, 20, 294-302.	3.8	59
136	Tamoxifen-loaded nanostructured lipid carrier as a drug delivery system: Characterization, stability assessment and cytotoxicity. Colloids and Surfaces B: Biointerfaces, 2013, 112, 393-399.	2.5	100
137	Curcumin-containing chitosan nanoparticles as a potential mucoadhesive delivery system to the colon. Pharmaceutical Development and Technology, 2013, 18, 591-599.	1.1	99
138	Impact of osmotic pressure and gelling in the generation of highly stable single core water-in-oil-in-water (W/O/W) nano multiple emulsions of aspirin assisted by two-stage ultrasonic cavitational emulsification. Colloids and Surfaces B: Biointerfaces, 2013, 102, 653-658.	2.5	55
139	Copper(II) ion removal from aqueous solutions using biosorption technology: thermodynamic and SEMâ€“EDX studies. Clean Technologies and Environmental Policy, 2013, 15, 401-407.	2.1	39
140	Generation and Optimization of Palm Oil-Based Oil-in-Water (O/W) Submicron-Emulsions and Encapsulation of Curcumin Using a Liquid Whistle Hydrodynamic Cavitation Reactor (LWHCR). Industrial & Engineering Chemistry Research, 2013, 52, 11829-11837.	1.8	59
141	IN VITRO CONTROL OF COLLETOTRICHUM GLOEOSPORIOIDES BY USING CHITOSAN LOADED NANOEMULSIONS. Acta Horticulturae, 2013, , 769-774.	0.1	12
142	DUAL MODE OF ACTION OF ETHANOLIC EXTRACT OF PROPOLIS (EEP) FOR THE CONTROL OF POSTHARVEST ANTHRACNOSE IN DRAGON FRUITS. Acta Horticulturae, 2013, , 711-717.	0.1	3
143	APPLICATION OF A CHITOSAN BASED NANOPARTICLE FORMULATION AS AN EDIBLE COATING FOR TOMATOES (SOLANUM LYCOPERISCUM L.). Acta Horticulturae, 2013, , 445-452.	0.1	8
144	Potential of chitosan-loaded nanoemulsions to control different Colletotrichum spp. and maintain quality of tropical fruits during cold storage. Journal of Applied Microbiology, 2012, 113, 925-939.	1.4	68

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145	Hydrothermal crystallization of titania on silver nucleation sites for the synthesis of visible light nano-photocatalystsâ€"Enhanced photoactivity using Rhodamine 6G. Applied Catalysis A: General, 2012, 433-434, 75-80.	2.2	18
146	Response Surface Methodology, an effective strategy in the optimization of the generation of curcuminâ€loaded micelles. Asia-Pacific Journal of Chemical Engineering, 2012, 7, S125.	0.8	18
147	Design and evaluation of aspirinâ€loaded waterâ€inâ€oilâ€inâ€water submicron multiple emulsions generated using twoâ€stage ultrasonic cavitational emulsification technique. Asia-Pacific Journal of Chemical Engineering, 2012, 7, S145.	0.8	32
148	Green High-Gravitational Synthesis of Silver Nanoparticles Using a Rotating Packed Bed Reactor (RPBR). Industrial & Engineering Chemistry Research, 2012, 51, 5375-5381.	1.8	30
149	Anti-inflammatory and analgesic activity of novel oral aspirin-loaded nanoemulsion and nano multiple emulsion formulations generated using ultrasound cavitation. International Journal of Pharmaceutics, 2012, 430, 299-306.	2.6	86
150	Formulation development and optimization of a novel Cremophore EL-based nanoemulsion using ultrasound cavitation. Ultrasonics Sonochemistry, 2012, 19, 330-345.	3.8	170
151	Ultrasonic cavitation induced water in vegetable oil emulsion droplets â€" A simple and easy technique to synthesize manganese zinc ferrite nanocrystals with improved magnetization. Ultrasonics Sonochemistry, 2012, 19, 652-658.	3.8	34
152	Production of Nanomaterials Using Ultrasonic Cavitation â€" A Simple, Energy Efficient and Technological Approach. Food Engineering Series, 2011, , 405-444.	0.3	0
153	Ultrasound in Enzyme Activation and Inactivation. Food Engineering Series, 2011, , 369-404.	0.3	50
154	2-(Trimethylsilyl)ethanol as a new alcohol equivalent for copper-catalyzed coupling of aryl iodides. Tetrahedron Letters, 2011, 52, 5338-5341.	0.7	5
155	Efficient indoles and anilines syntheses employing tert-butyl sulfinamide as ammonia surrogate. Tetrahedron Letters, 2011, 52, 5625-5628.	0.7	27
156	Carbamic acid 2-trimethylsilylethyl ester as a new ammonia equivalent for palladium-catalyzed amination of aryl halides. Tetrahedron Letters, 2010, 51, 5984-5987.	0.7	10
157	Fabrication of nanosized Pt on rutile TiO2 using a standing wave sonochemical reactor (SWSR) â€" observation of an enhanced catalytic oxidation of CO. Ultrasonics Sonochemistry, 2010, 17, 213-218.	3.8	18
158	Physical facets of ultrasonic cavitational synthesis of zinc ferrite particles. Ultrasonics Sonochemistry, 2010, 17, 416-426.	3.8	62
159	Dependence of sonochemical parameters on the platinization of rutile titania â€" An observation of a pronounced increase in photocatalytic efficiencies. Ultrasonics Sonochemistry, 2010, 17, 621-627.	3.8	30
160	Tissue Distribution, Pharmacokinetics and Stability Studies of Zidovudine Delivered by Niosomes and Proniosomes. Journal of Biomedical Nanotechnology, 2010, 6, 43-51.	0.5	25
161	Sonochemical Synthesis of Oxides and Sulfides. , 2010, , 191-211.		2
162	Synthesis of europium-doped yttrium hydroxide and yttrium oxide nanosheets. Journal of Materials Science, 2008, 43, 1214-1219.	1.7	25

#	Article	IF	Citations
163	2-(Trimethylsilyl)ethanesulfonyl amide as a new ammonia equivalent for palladium-catalyzed amination of aryl halides. Tetrahedron Letters, 2008, 49, 4585-4587.	0.7	25
164	Nanoparticular Drug Delivery System of Cytarabine Hydrochloride (CTH) for Improved Treatment of Lymphoma. Journal of Biomedical Nanotechnology, 2007, 3, 90-96.	0.5	5
165	Ultrasound induced formation of paraffin emulsion droplets as template for the preparation of porous zirconia. Ultrasonics Sonochemistry, 2007, 14, 705-710.	3.8	13
166	Acoustic cavitationâ€"an efficient energetic tool to synthesize nanosized CuOâ€“ZrO2catalysts with a mesoporous distribution. New Journal of Chemistry, 2006, 30, 102-107.	1.4	19
167	Particle size dependence of magnetization and phase transition near TN in multiferroic BiFeO3. Journal of Applied Physics, 2006, 100, 033908.	1.1	119
168	Fabrication of Zinc Ferrite Nanocrystals by Sonochemical Emulsification and Evaporation:Â Observation of Magnetization and Its Relaxation at Low Temperature. Journal of Physical Chemistry B, 2006, 110, 15234-15243.	1.2	102
169	Ultrasonic Cavitational Activation: A Simple and Feasible Route for the Direct Conversion of Zinc Acetate to Highly Monodispersed ZnO. Chemistry Letters, 2006, 35, 60-61.	0.7	19
170	Methotrexate Loaded Solid Lipid Nanoparticles (SLN) for Effective Treatment of Carcinoma. Journal of Nanoscience and Nanotechnology, 2006, 6, 2991-2995.	0.9	55
171	A new ultrasonic cavitation approach for the synthesis of zinc ferrite nanocrystals. Current Applied Physics, 2006, 6, 591-593.	1.1	64
172	Influence of dissolved-air concentration on spatial distribution of bubbles for sonochemistry. Ultrasonics, 2006, 44, e357-e361.	2.1	26
173	Synthesis of Alumina Macroporous Materials Using Yeast Cells as Bio-Templates. Journal of the Ceramic Society of Japan, 2005, 113, 696-699.	1.3	3
174	Sonochemistry and its dosimetry. Microchemical Journal, 2005, 80, 159-164.	2.3	147
175	Enhancement of sonochemical reaction by particle addition. AIP Conference Proceedings, 2005, , .	0.3	2
176	Ultrasonic Cavitation: A Solution to Nano and Biomaterials. AIP Conference Proceedings, 2005, , .	0.3	0
177	Correlation between Acoustic Cavitation Noise and Yield Enhancement of Sonochemical Reaction by Particle Addition. Journal of Physical Chemistry A, 2005, 109, 4869-4872.	1.1	190
178	A sonochemical method for the synthesis of polyaniline and Auâ€“polyaniline composites using H2O2 for enhancing rate and yield. Synthetic Metals, 2005, 148, 301-306.	2.1	55
179	Theoretical study of single-bubble sonochemistry. Journal of Chemical Physics, 2005, 122, 224706.	1.2	148
180	Fabrication of bimodal (meso/macro) porous alumina materials using yeast cells as templates. E-Journal of Surface Science and Nanotechnology, 2005, 3, 405-411.	0.1	4

#	Article	IF	Citations
181	Nanophase formation of strontium hexaferrite fine powder by the sonochemical method using Fe(CO)5. Journal of Magnetism and Magnetic Materials, 2004, 268, 95-104.	1.0	101
182	Destruction of Rhodamine B using novel sonochemical reactor with capacity of 7.5 l. Separation and Purification Technology, 2004, 34, 13-24.	3.9	61
183	Correlation in spatial intensity distribution between volumetric bubble oscillations and sonochemiluminescence in a multibubble system. Research on Chemical Intermediates, 2004, 30, 755-762.	1.3	14
184	Insights into the sonochemical decomposition of Fe(CO)5: theoretical and experimental understanding of the role of molar concentration and power density on the reaction yield. Ultrasonics Sonochemistry, 2004, 11, 373-378.	3.8	38
185	Ultrasonic cavitation in microspace. Chemical Communications, 2004, , 2280.	2.2	47
186	Sonoluminescence. Applied Spectroscopy Reviews, 2004, 39, 399-436.	3.4	78
187	Laser-Light Scattering from a Multibubble System for Sonochemistry. Journal of Physical Chemistry A, 2004, 108, 9011-9013.	1.1	22
188	Sonochemical Synthesis of Nanocrystalline Rare Earth Orthoferrites Using Fe(CO)5Precursor. Chemistry of Materials, 2004, 16, 3623-3632.	3.2	62
189	Preparation of nanosized TiO2 supported on activated alumina by a sonochemical method: observation of an increased photocatalytic decolourisation efficiency. Research on Chemical Intermediates, 2004, 30, 785-792.	1.3	7
190	Sonochemical synthesis of nanocrystalline LaFeO3. Journal of Materials Chemistry, 2004, 14, 764.	6.7	103
191	Kinetics of p-nitrophenol degradation: effect of reaction conditions and cavitational parameters for a multiple frequency system. Chemical Engineering Journal, 2002, 85, 327-338.	6.6	179
192	Ultrasound mediated alkaline hydrolysis of methyl benzoate â€“ reinvestigation with crucial parameters. Ultrasonics Sonochemistry, 2002, 9, 25-30.	3.8	27
193	Wastewater treatment: a novel energy efficient hydrodynamic cavitational technique. Ultrasonics Sonochemistry, 2002, 9, 123-131.	3.8	266
194	ULTRASOUND ENHANCED PTC CONVERSION OF BENZAMIDE TO BENZONITRILE. Synthetic Communications, 2001, 31, 2583-2587.	1.1	11
195	Ultrasound enhanced degradation of Rhodamine B: optimization with power density. Ultrasonics Sonochemistry, 2001, 8, 233-240.	3.8	251
196	Cavitation reactors: Efficiency assessment using a model reaction. AICHE Journal, 2001, 47, 2526-2538.	1.8	264
197	Experimental quantification of chemical effects of hydrodynamic cavitation. Chemical Engineering Science, 2000, 55, 1633-1639.	1.9	195
198	Influence of EFB-based biochar on complete removal of TSS and decolorization of palm-oil-mill-effluent (POME). , 0, 83, 66-74.		0