

# 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	Wastewater treatment: a novel energy efficient hydrodynamic cavitation technique. <i>Ultrasonics Sonochemistry</i> , 2002, 9, 123-131.	3.8	266
2	Cavitation reactors: Efficiency assessment using a model reaction. <i>AIChE Journal</i> , 2001, 47, 2526-2538.	1.8	264
3	Ultrasound enhanced degradation of Rhodamine B: optimization with power density. <i>Ultrasonics Sonochemistry</i> , 2001, 8, 233-240.	3.8	251
4	Cavitation technology – A greener processing technique for the generation of pharmaceutical nanoemulsions. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 2069-2083.	3.8	218
5	Experimental quantification of chemical effects of hydrodynamic cavitation. <i>Chemical Engineering Science</i> , 2000, 55, 1633-1639.	1.9	195
6	Impact of process parameters in the generation of novel aspirin nanoemulsions – Comparative studies between ultrasound cavitation and microfluidizer. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 485-497.	3.8	194
7	Correlation between Acoustic Cavitation Noise and Yield Enhancement of Sonochemical Reaction by Particle Addition. <i>Journal of Physical Chemistry A</i> , 2005, 109, 4869-4872.	1.1	190
8	Kinetics of p-nitrophenol degradation: effect of reaction conditions and cavitation parameters for a multiple frequency system. <i>Chemical Engineering Journal</i> , 2002, 85, 327-338.	6.6	179
9	Formulation development and optimization of a novel Cremophore EL-based nanoemulsion using ultrasound cavitation. <i>Ultrasonics Sonochemistry</i> , 2012, 19, 330-345.	3.8	170
10	Functionalized fullerene (C <sub>60</sub> ) as a potential nanomediator in the fabrication of highly sensitive biosensors. <i>Biosensors and Bioelectronics</i> , 2015, 63, 354-364.	5.3	163
11	Theoretical study of single-bubble sonochemistry. <i>Journal of Chemical Physics</i> , 2005, 122, 224706.	1.2	148
12	Sonochemistry and its dosimetry. <i>Microchemical Journal</i> , 2005, 80, 159-164.	2.3	147
13	State of the art and recent advances in the ultrasound-assisted synthesis, exfoliation and functionalization of graphene derivatives. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 478-493.	3.8	146
14	Graphene-based 3D scaffolds in tissue engineering: fabrication, applications, and future scope in liver tissue engineering. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 5753-5783.	3.3	130
15	Graphene: A versatile platform for nanotheranostics and tissue engineering. <i>Progress in Materials Science</i> , 2018, 91, 24-69.	16.0	127
16	Exceedingly biocompatible and thin-layered reduced graphene oxide nanosheets using an eco-friendly mushroom extract strategy. <i>International Journal of Nanomedicine</i> , 2015, 10, 1505.	3.3	122
17	Particle size dependence of magnetization and phase transition near TN in multiferroic BiFeO <sub>3</sub> . <i>Journal of Applied Physics</i> , 2006, 100, 033908.	1.1	119
18	Cavitation Technology – The Future of Greener Extraction Method: A Review on the Extraction of Natural Products and Process Intensification Mechanism and Perspectives. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 766.	1.3	109

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19	Recent advancements in the sonophotocatalysis (SPC) and doped-sonophotocatalysis (DSPC) for the treatment of recalcitrant hazardous organic water pollutants. <i>Ultrasonics Sonochemistry</i> , 2017, 36, 481-496.	3.8	104
20	Sonochemical synthesis of nanocrystalline LaFeO <sub>3</sub> . <i>Journal of Materials Chemistry</i> , 2004, 14, 764.	6.7	103
21	Fabrication of Zinc Ferrite Nanocrystals by Sonochemical Emulsification and Evaporation:Â Observation of Magnetization and Its Relaxation at Low Temperature. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15234-15243.	1.2	102
22	Nanophase formation of strontium hexaferrite fine powder by the sonochemical method using Fe(CO) <sub>5</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 268, 95-104.	1.0	101
23	Tamoxifen-loaded nanostructured lipid carrier as a drug delivery system: Characterization, stability assessment and cytotoxicity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 112, 393-399.	2.5	100
24	Curcumin-containing chitosan nanoparticles as a potential mucoadhesive delivery system to the colon. <i>Pharmaceutical Development and Technology</i> , 2013, 18, 591-599.	1.1	99
25	The biogenic synthesis of a reduced graphene oxideâ€“silver (RGOâ€“Ag) nanocomposite and its dual applications as an antibacterial agent and cancer biomarker sensor. <i>RSC Advances</i> , 2016, 6, 36576-36587.	1.7	97
26	Development of silane grafted halloysite nanotube reinforced polylactide nanocomposites for the enhancement of mechanical, thermal and dynamic-mechanical properties. <i>Applied Clay Science</i> , 2017, 135, 583-595.	2.6	97
27	Sonochemical and sustainable synthesis of graphene-gold (G-Au) nanocomposites for enzymeless and selective electrochemical detection of nitric oxide. <i>Biosensors and Bioelectronics</i> , 2017, 87, 622-629.	5.3	91
28	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. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 729-742.	3.8	89
29	Anti-inflammatory and analgesic activity of novel oral aspirin-loaded nanoemulsion and nano multiple emulsion formulations generated using ultrasound cavitation. <i>International Journal of Pharmaceutics</i> , 2012, 430, 299-306.	2.6	86
30	Exceedingly Higher co-loading of Curcumin and Paclitaxel onto Polymer-functionalized Reduced Graphene Oxide for Highly Potent Synergistic Anticancer Treatment. <i>Scientific Reports</i> , 2016, 6, 32808.	1.6	84
31	Integrated ultrasound-assisted liquid biphasic flotation for efficient extraction of astaxanthin from <i>Haematococcus pluvialis</i> . <i>Ultrasonics Sonochemistry</i> , 2020, 67, 105052.	3.8	83
32	Optimization of ultrasound induced emulsification on the formulation of palm-olein based nanoemulsions for the incorporation of antioxidant Î²-d-glucan polysaccharides. <i>Ultrasonics Sonochemistry</i> , 2016, 31, 71-84.	3.8	79
33	Comparison between airborne ultrasound and contact ultrasound to intensify air drying of blackberry: Heat and mass transfer simulation, energy consumption and quality evaluation. <i>Ultrasonics Sonochemistry</i> , 2021, 72, 105410.	3.8	79
34	Sonoluminescence. <i>Applied Spectroscopy Reviews</i> , 2004, 39, 399-436.	3.4	78
35	Optimization of palm oil in water nano-emulsion with curcumin using microfluidizer and response surface methodology. <i>LWT - Food Science and Technology</i> , 2018, 96, 58-65.	2.5	75
36	Ultrasonically extracted Î²-d-glucan from artificially cultivated mushroom, characteristic properties and antioxidant activity. <i>Ultrasonics Sonochemistry</i> , 2017, 35, 531-540.	3.8	74

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37	Controlled Hydrodynamic Cavitation: A Review of Recent Advances and Perspectives for Greener Processing. <i>Processes</i> , 2020, 8, 220.	1.3	74
38	Synthesis of graphene: Potential carbon precursors and approaches. <i>Nanotechnology Reviews</i> , 2020, 9, 1284-1314.	2.6	72
39	Potential of chitosan-loaded nanoemulsions to control different <i>Colletotrichum</i> spp. and maintain quality of tropical fruits during cold storage. <i>Journal of Applied Microbiology</i> , 2012, 113, 925-939.	1.4	68
40	Graphene and Graphene Oxide as a Docking Station for Modern Drug Delivery System. <i>Current Drug Delivery</i> , 2014, 11, 701-718.	0.8	66
41	A new ultrasonic cavitation approach for the synthesis of zinc ferrite nanocrystals. <i>Current Applied Physics</i> , 2006, 6, 591-593.	1.1	64
42	Sonochemical Synthesis of Nanocrystalline Rare Earth Orthoferrites Using Fe(CO) <sub>5</sub> Precursor. <i>Chemistry of Materials</i> , 2004, 16, 3623-3632.	3.2	62
43	Physical facets of ultrasonic cavitation synthesis of zinc ferrite particles. <i>Ultrasonics Sonochemistry</i> , 2010, 17, 416-426.	3.8	62
44	Destruction of Rhodamine B using novel sonochemical reactor with capacity of 7.5 l. <i>Separation and Purification Technology</i> , 2004, 34, 13-24.	3.9	61
45	Microwave-assisted extraction of polysaccharides from <i>Cyphomandra betacea</i> and its biological activities. <i>International Journal of Biological Macromolecules</i> , 2016, 92, 682-693.	3.6	61
46	Enzymatic pretreatment to enhance anaerobic bioconversion of high strength wastewater to biogas: A review. <i>Science of the Total Environment</i> , 2020, 713, 136373.	3.9	61
47	Effectiveness of submicron chitosan dispersions in controlling anthracnose and maintaining quality of dragon fruit. <i>Postharvest Biology and Technology</i> , 2013, 86, 147-153.	2.9	60
48	Intensification of synthesis of biodiesel from palm oil using multiple frequency ultrasonic flow cell. <i>Fuel Processing Technology</i> , 2014, 128, 388-393.	3.7	60
49	A novel hybrid approach of activated carbon and ultrasound cavitation for the intensification of palm oil mill effluent (POME) polishing. <i>Journal of Cleaner Production</i> , 2016, 112, 1218-1226.	4.6	60
50	The COVID-19 Vaccines: Recent Development, Challenges and Prospects. <i>Vaccines</i> , 2021, 9, 349.	2.1	60
51	Mechanistic investigation of the sonochemical synthesis of zinc ferrite. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 294-302.	3.8	59
52	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). <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 11829-11837.	1.8	59
53	A review on recent advances in hydrogen energy, fuel cell, biofuel and fuel refining via ultrasound process intensification. <i>Ultrasonics Sonochemistry</i> , 2021, 73, 105536.	3.8	59
54	Extraction of proteins from microalgae using integrated method of sugaring-out assisted liquid biphasic flotation (LBF) and ultrasound. <i>Ultrasonics Sonochemistry</i> , 2018, 48, 231-239.	3.8	56

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55	A recent trend: application of graphene in catalysis. <i>Carbon Letters</i> , 2021, 31, 177-199.	3.3	56
56	A sonochemical method for the synthesis of polyaniline and Au@polyaniline composites using H <sub>2</sub> O <sub>2</sub> for enhancing rate and yield. <i>Synthetic Metals</i> , 2005, 148, 301-306.	2.1	55
57	Methotrexate Loaded Solid Lipid Nanoparticles (SLN) for Effective Treatment of Carcinoma. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 2991-2995.	0.9	55
58	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 cavitation emulsification. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 653-658.	2.5	55
59	Synthesis of graphene oxide and graphene quantum dots from miscanthus via ultrasound-assisted mechano-chemical cracking method. <i>Ultrasonics Sonochemistry</i> , 2021, 73, 105519.	3.8	55
60	Bridge between mass transfer behavior and properties of bubbles under two-stage ultrasound-assisted physisorption of polyphenols using macroporous resin. <i>Chemical Engineering Journal</i> , 2022, 436, 135158.	6.6	55
61	Ultrasound-assisted water-in-palm oil nano-emulsion: Influence of polyglycerol polyricinoleate and NaCl on its stability. <i>Ultrasonics Sonochemistry</i> , 2019, 52, 353-363.	3.8	54
62	Fermentation of blueberry juices using autochthonous lactic acid bacteria isolated from fruit environment: Fermentation characteristics and evolution of phenolic profiles. <i>Chemosphere</i> , 2021, 276, 130090.	4.2	54
63	Sonochemical degradation of endocrine-disrupting organochlorine pesticide Dicofol: Investigations on the transformation pathways of dechlorination and the influencing operating parameters. <i>Chemosphere</i> , 2018, 204, 101-108.	4.2	53
64	Hydrodynamic cavitation assisted degradation of persistent endocrine-disrupting organochlorine pesticide Dicofol: Optimization of operating parameters and investigations on the mechanism of intensification. <i>Ultrasonics Sonochemistry</i> , 2019, 51, 526-532.	3.8	52
65	Ultrasound in Enzyme Activation and Inactivation. <i>Food Engineering Series</i> , 2011, , 369-404.	0.3	50
66	Role of H <sub>2</sub> O <sub>2</sub> 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. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1519-1526.	3.8	50
67	Acoustic cavitation induced generation of stabilizer-free, extremely stable reduced graphene oxide nanodispersion for efficient delivery of paclitaxel in cancer cells. <i>Ultrasonics Sonochemistry</i> , 2017, 36, 129-138.	3.8	50
68	Induction of lignin and pathogenesis related proteins in dragon fruit plants in response to submicron chitosan dispersions. <i>Crop Protection</i> , 2014, 63, 83-88.	1.0	49
69	Ultrasound-Assisted Chitosan@Surfactant Nanostructure Assemblies: Towards Maintaining Postharvest Quality of Tomatoes. <i>Food and Bioprocess Technology</i> , 2014, 7, 2102-2111.	2.6	48
70	Ultrasonic cavitation in microspace. <i>Chemical Communications</i> , 2004, , 2280.	2.2	47
71	A novel and facile liquid whistle hydrodynamic cavitation reactor to produce submicron multiple emulsions. <i>AIChE Journal</i> , 2013, 59, 155-167.	1.8	44
72	Fabrication and Characterization of an Electrospun PHA/Graphene Silver Nanocomposite Scaffold for Antibacterial Applications. <i>Materials</i> , 2018, 11, 1673.	1.3	42

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73	Effect of ozone gas as an elicitor to enhance the bioactive compounds in <i>Ganoderma lucidum</i> . <i>Postharvest Biology and Technology</i> , 2016, 117, 81-88.	2.9	41
74	Hydration or hydroxylation: direct synthesis of fulleranol from pristine fullerene [C <sub>60</sub> ] via acoustic cavitation in the presence of hydrogen peroxide. <i>RSC Advances</i> , 2017, 7, 31930-31939.	1.7	40
75	Copper(II) ion removal from aqueous solutions using biosorption technology: thermodynamic and SEM-EDX studies. <i>Clean Technologies and Environmental Policy</i> , 2013, 15, 401-407.	2.1	39
76	Recent ultrasound advancements for the manipulation of nanobiomaterials and nanoformulations for drug delivery. <i>Ultrasonics Sonochemistry</i> , 2021, 80, 105805.	3.8	39
77	Insights into the sonochemical decomposition of Fe(CO) <sub>5</sub> : theoretical and experimental understanding of the role of molar concentration and power density on the reaction yield. <i>Ultrasonics Sonochemistry</i> , 2004, 11, 373-378.	3.8	38
78	Ultrasound in the deproteinization process for chitin and chitosan production. <i>Ultrasonics Sonochemistry</i> , 2021, 72, 105417.	3.8	38
79	Double Layer Coatings: A New Technique for Maintaining Physico-Chemical Characteristics and Antioxidant Properties of Dragon Fruit During Storage. <i>Food and Bioprocess Technology</i> , 2014, 7, 2366-2374.	2.6	36
80	Process intensification of anaerobically digested palm oil mill effluent (AAD-POME) treatment using combined chitosan coagulation, hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ) and Fenton's oxidation. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 219-230.	2.1	36
81	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. <i>Journal of Nanobiotechnology</i> , 2014, 12, 20.	4.2	35
82	Investigations on the generation of oil-in-water (O/W) nanoemulsions through the combination of ultrasound and microchannel. <i>Ultrasonics Sonochemistry</i> , 2020, 69, 105258.	3.8	35
83	Ultrasonic cavitation induced water in vegetable oil emulsion droplets – A simple and easy technique to synthesize manganese zinc ferrite nanocrystals with improved magnetization. <i>Ultrasonics Sonochemistry</i> , 2012, 19, 652-658.	3.8	34
84	Emerging algal nanotechnology for high-value compounds: A direction to future food production. <i>Trends in Food Science and Technology</i> , 2021, 116, 290-302.	7.8	33
85	Design and evaluation of aspirin-loaded water-in-oil-in-water submicron multiple emulsions generated using two-stage ultrasonic cavitation emulsification technique. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012, 7, S145.	0.8	32
86	Application of ultrasonication at different microbial growth stages during apple juice fermentation by <i>Lactobacillus plantarum</i> : Investigation on the metabolic response. <i>Ultrasonics Sonochemistry</i> , 2021, 73, 105486.	3.8	32
87	Facile sonochemical synthesis of Ag <sub>2</sub> O-guar gum nanocomposite as a visible light photocatalyst for the organic transformation reactions. <i>Journal of Hazardous Materials</i> , 2020, 385, 121621.	6.5	31
88	Experimental and DFT studies on the ultrasonic energy-assisted extraction of the phytochemicals of <i>Catharanthus roseus</i> as green corrosion inhibitors for mild steel in NaCl medium. <i>RSC Advances</i> , 2020, 10, 5399-5411.	1.7	31
89	Dependence of sonochemical parameters on the platinization of rutile titania – An observation of a pronounced increase in photocatalytic efficiencies. <i>Ultrasonics Sonochemistry</i> , 2010, 17, 621-627.	3.8	30
90	Green High-Gravitational Synthesis of Silver Nanoparticles Using a Rotating Packed Bed Reactor (RPBR). <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 5375-5381.	1.8	30

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91	Integrating gold nanoclusters, folic acid and reduced graphene oxide for nanosensing of glutathione based on "turn-off" fluorescence. <i>Scientific Reports</i> , 2021, 11, 2375.	1.6	29
92	Sonoproduction of nanobiomaterials " A critical review. <i>Ultrasonics Sonochemistry</i> , 2022, 82, 105887.	3.8	29
93	Isolation of protein from <i>Chlorella sorokiniana</i> CY1 using liquid biphasic flotation assisted with sonication through sugaring-out effect. <i>Journal of Oceanology and Limnology</i> , 2019, 37, 898-908.	0.6	28
94	Ultrasound mediated alkaline hydrolysis of methyl benzoate " reinvestigation with crucial parameters. <i>Ultrasonics Sonochemistry</i> , 2002, 9, 25-30.	3.8	27
95	Efficient indoles and anilines syntheses employing tert-butyl sulfonamide as ammonia surrogate. <i>Tetrahedron Letters</i> , 2011, 52, 5625-5628.	0.7	27
96	Influence of selenium precursors on the formation of iron selenide nanostructures (FeSe <sub>2</sub> ): Efficient Electro-Fenton catalysts for detoxification of harmful organic dyestuffs. <i>Chemosphere</i> , 2021, 272, 129639.	4.2	27
97	Influence of dissolved-air concentration on spatial distribution of bubbles for sonochemistry. <i>Ultrasonics</i> , 2006, 44, e357-e361.	2.1	26
98	Sonoprocessing-assisted solvent extraction for the recovery of pigment-protein complex from <i>Spirulina platensis</i> . <i>Chemical Engineering Journal</i> , 2020, 398, 125613.	6.6	26
99	Synthesis of europium-doped yttrium hydroxide and yttrium oxide nanosheets. <i>Journal of Materials Science</i> , 2008, 43, 1214-1219.	1.7	25
100	2-(Trimethylsilyl)ethanesulfonyl amide as a new ammonia equivalent for palladium-catalyzed amination of aryl halides. <i>Tetrahedron Letters</i> , 2008, 49, 4585-4587.	0.7	25
101	Tissue Distribution, Pharmacokinetics and Stability Studies of Zidovudine Delivered by Niosomes and Proniosomes. <i>Journal of Biomedical Nanotechnology</i> , 2010, 6, 43-51.	0.5	25
102	Biosustainable production of nanoparticles via mycogenesis for biotechnological applications: A critical review. <i>Environmental Research</i> , 2022, 204, 111963.	3.7	25
103	Sonosynthesis of cellulose nanoparticles (CNP) from kenaf fiber: Effects of processing parameters. <i>Fibers and Polymers</i> , 2016, 17, 1352-1358.	1.1	24
104	Heterogeneous Sono-Fenton treatment of decabromodiphenyl ether (BDE-209): Debromination mechanism and transformation pathways. <i>Separation and Purification Technology</i> , 2019, 209, 914-920.	3.9	24
105	Improved functionalization and recovery of carboxylated carbon nanotubes using the acoustic cavitation approach. <i>Chemical Physics Letters</i> , 2013, 557, 97-101.	1.2	23
106	Sono-nano chemistry: A new era of synthesising polyhydroxylated carbon nanomaterials with hydroxyl groups and their industrial aspects. <i>Ultrasonics Sonochemistry</i> , 2019, 51, 451-461.	3.8	23
107	Highly Sensitive Electrochemical Biosensor Using Folic Acid-Modified Reduced Graphene Oxide for the Detection of Cancer Biomarker. <i>Nanomaterials</i> , 2021, 11, 1272.	1.9	23
108	Laser-Light Scattering from a Multibubble System for Sonochemistry. <i>Journal of Physical Chemistry A</i> , 2004, 108, 9011-9013.	1.1	22

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109	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
110	Regulation of inducible enzymes and suppression of anthracnose using submicron chitosan dispersions. Scientia Horticulturae, 2015, 193, 381-388.	1.7	21
111	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
112	Development of high-performance aluminium 6061/SiC nanocomposites by ultrasonic aided rheo-squeeze casting method. Ultrasonics Sonochemistry, 2021, 76, 105631.	3.8	21
113	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
114	Acoustic cavitation as an efficient energetic tool to synthesize nanosized CuO-ZrO <sub>2</sub> catalysts with a mesoporous distribution. New Journal of Chemistry, 2006, 30, 102-107.	1.4	19
115	Ultrasonic Cavitation 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
116	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
117	Inhibition and kinetic studies of lignin degrading enzymes of <i>Ganoderma boninense</i> by naturally occurring phenolic compounds. Journal of Applied Microbiology, 2018, 125, 876-887.	1.4	19
118	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
119	Fabrication of nanosized Pt on rutile TiO <sub>2</sub> using a standing wave sonochemical reactor (SWSR) observation of an enhanced catalytic oxidation of CO. Ultrasonics Sonochemistry, 2010, 17, 213-218.	3.8	18
120	Hydrothermal crystallization of titania on silver nucleation sites for the synthesis of visible light nano-photocatalysts enhanced photoactivity using Rhodamine 6G. Applied Catalysis A: General, 2012, 433-434, 75-80.	2.2	18
121	Response Surface Methodology, an effective strategy in the optimization of the generation of curcumin-loaded micelles. Asia-Pacific Journal of Chemical Engineering, 2012, 7, S125.	0.8	18
122	Development of antler-type fruiting bodies of <i>Ganoderma lucidum</i> and determination of its biochemical properties. Fungal Biology, 2018, 122, 293-301.	1.1	18
123	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
124	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
125	Optimization of ultrasound assisted extraction (UAE) of $\beta$ -D-glucan polysaccharides from <i>Ganoderma lucidum</i> for prospective scale-up. Resource-efficient Technologies, 2017, 3, 46-54.	0.1	17
126	Inhibition and kinetic studies of cellulose- and hemicellulose-degrading enzymes of <i>Ganoderma boninense</i> by naturally occurring phenolic compounds. Journal of Applied Microbiology, 2018, 124, 1544-1555.	1.4	17



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127	Role of benzoic and salicylic acids in the immunization of oil palm seedlings-challenged by <i>Ganoderma boninense</i> . <i>Industrial Crops and Products</i> , 2018, 122, 358-365.	2.5	17
128	Mechanical, thermal and dynamic-mechanical studies of functionalized halloysite nanotubes reinforced polypropylene composites. <i>Polymers and Polymer Composites</i> , 2021, 29, 1212-1221.	1.0	17
129	Ultrasound-assisted wet-impregnation of Ag <sup>+</sup> /Co nanoparticles on cellulose nanofibers: Enhanced catalytic hydrogenation of 4-nitrophenol. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105719.	3.3	17
130	Using Nanoparticle Tracking Analysis (NTA) to Decipher Mucoadhesion Propensity of Curcumin-Containing Chitosan Nanoparticles and Curcumin Release. <i>Journal of Dispersion Science and Technology</i> , 2014, 35, 1201-1207.	1.3	16
131	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. <i>Ultrasonics Sonochemistry</i> , 2020, 64, 104995.	3.8	16
132	A revisit to the separation of a binary mixture of ethanol-water using ultrasonic distillation as a separation process. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 87, 45-50.	1.8	15
133	Surface-treated short sisal fibers and halloysite nanotubes for synergistically enhanced performance of polypropylene hybrid composites. <i>Journal of Thermoplastic Composite Materials</i> , 2022, 35, 2089-2104.	2.6	15
134	Fish pond water treatment using ultrasonic cavitation and advanced oxidation processes. <i>Chemosphere</i> , 2021, 274, 129702.	4.2	15
135	Physical stability and rheological behavior of Pickering emulsions stabilized by protein-polysaccharide hybrid nanoconjugates. <i>Nanotechnology Reviews</i> , 2021, 10, 1293-1305.	2.6	15
136	Correlation in spatial intensity distribution between volumetric bubble oscillations and sonochemiluminescence in a multibubble system. <i>Research on Chemical Intermediates</i> , 2004, 30, 755-762.	1.3	14
137	Effects of axial circulation and dispersion geometry on the scale-up of ultrasonic extraction of polysaccharides. <i>AIChE Journal</i> , 2015, 61, 1483-1491.	1.8	14
138	Recent advancements in LC-MS based analysis of biotoxins: Present and future challenges. <i>Mass Spectrometry Reviews</i> , 2021, , .	2.8	14
139	Ultrasound induced formation of paraffin emulsion droplets as template for the preparation of porous zirconia. <i>Ultrasonics Sonochemistry</i> , 2007, 14, 705-710.	3.8	13
140	Ultrasound Production of Nano-emulsions for Bioactive Delivery in Drug and Food Applications. <i>Springer Briefs in Molecular Science</i> , 2018, , .	0.1	13
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