# Dong Zhang

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 205 papers | 2,668 citations | 28 h-index | 43 g-index |
| 226 ext. papers | 3,386 ext. citations | 3.9 avg, IF | 5.44 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 205 | Gram-Scale Synthesis of ()Chlorophenyl-1,2-Ethanediol at High Concentration by a Pair of Epoxide Hydrolases.. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 824300 | 5.8 | |
| 204 | Enantioselective Biosynthesis of L-Phenyllactic Acid From Phenylpyruvic Acid by L-Lactate Dehydrogenase Coupling With Glucose Dehydrogenase.. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 846489 | 5.8 | 0 |
| 203 | Non-Invasive Local Acoustic Therapy Ameliorates Diabetic Heart Fibrosis by Suppressing ACE-Mediated Oxidative Stress and Inflammation in Cardiac Fibroblasts.. *Cardiovascular Drugs and Therapy*, **2022**, 1 | 3.9 | |
| 202 | Optimization of a random linear ultrasonic therapeutic array based on a genetic algorithm.. *Ultrasonics*, **2022**, 124, 106751 | 3.5 | |
| 201 | Low-intensity pulsed ultrasound ameliorates angiotensin II-induced cardiac fibrosis by alleviating inflammation via a caveolin-1-dependent pathway. *Journal of Zhejiang University: Science B*, **2021**, 22, 818-838 | 4.5 | 2 |
| 200 | Directional off-axis acoustic-vortex beams passing through a preassigned point. *Journal of Applied Physics*, **2021**, 130, 144901 | 2.5 | 1 |
| 199 | Automatic identification of triple negative breast cancer in ultrasonography using a deep convolutional neural network. *Scientific Reports*, **2021**, 11, 20474 | 4.9 | 0 |
| 198 | Cavitation-facilitated transmembrane permeability enhancement induced by acoustically vaporized nanodroplets. *Ultrasonics Sonochemistry*, **2021**, 79, 105790 | 8.9 | 2 |
| 197 | Effect of esterification crosslinking on interfacial heat transfer between graphene and phase change material. *Composite Interfaces*, **2021**, 28, 1121-1135 | 2.3 | 0 |
| 196 | Fourier Acoustical Tweezers: Synthesizing Arbitrary Radiation Force Using Nonmonochromatic Waves on Discrete-Frequency Basis. *Physical Review Applied*, **2021**, 15, | 4.3 | 1 |
| 195 | Weak-focused acoustic vortex generated by a focused ring array of planar transducers and its application in large-scale rotational object manipulation*. *Chinese Physics B*, **2021**, 30, 044302 | 1.2 | 2 |
| 194 | Structure-guided improvement in the enantioselectivity of an Aspergillus usamii epoxide hydrolase for the gram-scale kinetic resolution of ortho-trifluoromethyl styrene oxide. *Enzyme and Microbial Technology*, **2021**, 146, 109778 | 3.8 | 1 |
| 193 | Latency prediction of earmuff using a lumped parameter model. *Applied Acoustics*, **2021**, 176, 107870 | 3.1 | 2 |
| 192 | Laboratory Experimental Optimization of Gel Flooding Parameters to Enhance Oil Recovery during Field Applications. *ACS Omega*, **2021**, 6, 14968-14976 | 3.9 | 1 |
| 191 | Thermal strain imaging in vivo using interpolated IQ-images. *Ultrasonics*, **2021**, 110, 106292 | 3.5 | |
| 190 | Nearly perfect kinetic resolution of racemic o-nitrostyrene oxide by AuEH2, a microsomal epoxide hydrolase from Aspergillus usamii, with high enantio- and regio-selectivity. *International Journal of Biological Macromolecules*, **2021**, 169, 1-7 | 7.9 | 0 |
| 189 | Quantitative Evaluation of Rotator Cuff Tears Based on Non-linear Statistical Analysis of Ultrasound Radiofrequency Signals. *Ultrasound in Medicine and Biology*, **2021**, 47, 582-589 | 3.5 | |

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| 188 | Spectrum Decomposition-Based Orbital Angular Momentum Communication of Acoustic Vortex Beams Using Single-Ring Transceiver Arrays. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2021**, 68, 1399-1407 | 3.2 | 2 |
| 187 | Classification of benign and malignant breast masses using entropy from nonlinear ultrasound Radiofrequency signal. *Wuli Xuebao/Acta Physica Sinica*, **2021**, 0-0 | 0.6 | 1 |
| 186 | Phase Change Materials Composite Based on Hybrid Aerogel with Anisotropic Microstructure. *Materials*, **2021**, 14, | 3.5 | 3 |
| 185 | Lamb wave coupled resonance for SAW acoustofluidics. *Applied Physics Letters*, **2021**, 118, 051103 | 3.4 | 1 |
| 184 | Theory of acoustophoresis in counterpropagating surface acoustic wave fields for particle separation. *Physical Review E*, **2021**, 103, 033104 | 2.4 | 2 |
| 183 | Asymmetric Catalytic Epoxidation of Terminal Enones for the Synthesis of Triazole Antifungal Agents. *Organic Letters*, **2021**, 23, 6961-6966 | 6.2 | 3 |
| 182 | An Analytical Solution for Investigating the Characteristics of Tidal Wave and Surge Propagation Associated with Non-Tropical and Tropical Cyclones in the Humen Estuary, Pearl River. *Water (Switzerland)*, **2021**, 13, 2375 | 3 | 1 |
| 181 | The influence of ultrasound-induced microbubble cavitation on the viability, migration and cell cycle distribution of melanoma cells. *Applied Acoustics*, **2021**, 179, 108056 | 3.1 | 2 |
| 180 | Low-intensity pulsed ultrasound prevents prolonged hypoxia-induced cardiac fibrosis through HIF-1DNMT3a pathway via a TRAAK-dependent manner. *Clinical and Experimental Pharmacology and Physiology*, **2021**, 48, 1500-1514 | 3 | 3 |
| 179 | Recursive algorithm for solving the axial acoustic radiation force exerted on rigid spheres at the focus of acoustic vortex beams. *Journal of Applied Physics*, **2021**, 130, 064901 | 2.5 | 1 |
| 178 | Low-intensity pulsed ultrasound prevents angiotensin II-induced aortic smooth muscle cell phenotypic switch via hampering miR-17-5p and enhancing PPAR- *European Journal of Pharmacology*, **2021**, 911, 174509 | 5.3 | 0 |
| 177 | Improvement in the catalytic performance of a phenylpyruvate reductase from by site-directed and saturation mutagenesis based on the computer-aided design. *3 Biotech*, **2021**, 11, 69 | 2.8 | 3 |
| 176 | Research on a Ka-Band MEMS Power Sensor Investigated with an MEMS Cantilever Beam. *Chinese Journal of Electronics*, **2020**, 29, 378-384 | 0.9 | 1 |
| 175 | Acoustic Characterization of Polydimethylsiloxane for Microscale Acoustofluidics. *Physical Review Applied*, **2020**, 13, | 4.3 | 5 |
| 174 | A FVCOM study of the potential coastal flooding in apponagansett bay and clarks cove, Dartmouth Town (MA). *Natural Hazards*, **2020**, 103, 2787-2809 | 3 | 3 |
| 173 | Low-intensity pulsed ultrasound inhibits IL-1nduced inflammation of fibroblast-like synoviosytes via NF-B pathway. *Applied Acoustics*, **2020**, 167, 107384 | 3.1 | 1 |
| 172 | A large areal capacitance structural supercapacitor with a 3D rGO@MnO2 foam electrode and polyacrylic acidPortland cementKOH electrolyte. *Journal of Materials Chemistry A*, **2020**, 8, 12586-12593 | 13 | 16 |
| 171 | A note on wind velocity and pressure spectra inside compact spherical porous microphone windscreens. *Journal of the Acoustical Society of America*, **2020**, 147, EL43 | 2.2 | 2 |

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| 170 | Principle and performance of orbital angular momentum communication of acoustic vortex beams based on single-ring transceiver arrays. *Journal of Applied Physics*, **2020**, 127, 124902 | 2.5 | 11 |
| 169 | Study on the variation of rock pore structure after polymer gel flooding. *E-Polymers*, **2020**, 20, 32-38 | 2.7 | 3 |
| 168 | Second harmonic magnetoacoustic responses of magnetic nanoparticles in magnetoacoustic tomography with magnetic induction. *Chinese Physics B*, **2020**, 29, 034302 | 1.2 | 5 |
| 167 | Contact Nonlinear Acoustic Diode. *Scientific Reports*, **2020**, 10, 2564 | 4.9 | 4 |
| 166 | A Novel Pt□iO2 Heterostructure with Oxygen-Deficient Layer as Bilaterally Enhanced Sonosensitizer for Synergistic Chemo-Sonodynamic Cancer Therapy. *Advanced Functional Materials*, **2020**, 30, 1908598 | 15.6 | 108 |
| 165 | Mechanisms underlying sonoporation: Interaction between microbubbles and cells. *Ultrasonics Sonochemistry*, **2020**, 67, 105096 | 8.9 | 28 |
| 164 | Pulling force of acoustic-vortex beams on centered elastic spheres based on the annular transducer model. *Chinese Physics B*, **2020**, 29, 054302 | 1.2 | 4 |
| 163 | Effects of active noise cancelling headphones on speech recognition. *Applied Acoustics*, **2020**, 165, 107335 | 3.1 | 7 |
| 162 | Investigation on degradation mechanism of polymer blockages in unconsolidated sandstone reservoirs. *E-Polymers*, **2020**, 20, 55-60 | 2.7 | 2 |
| 161 | Investigation on the effect of active-polymers with different functional groups for EOR. *E-Polymers*, **2020**, 20, 61-68 | 2.7 | 1 |
| 160 | Simulation and verification of an air-gun array wavelet in time-frequency domain based on van der waals gas equation. *Applied Geophysics*, **2020**, 17, 736-746 | 0.5 | 1 |
| 159 | Composite phase change material based on reduced graphene oxide/expanded graphite aerogel with improved thermal properties and shape-stability. *International Journal of Energy Research*, **2020**, 44, 242-256 | 4.5 | 14 |
| 158 | The influence of droplet concentration on phase change and inertial cavitation thresholds associated with acoustic droplet vaporization. *Journal of the Acoustical Society of America*, **2020**, 148, EL375 | 2.2 | 5 |
| 157 | An intelligent platform for ultrasound diagnosis of thyroid nodules. *Scientific Reports*, **2020**, 10, 13223 | 4.9 | 5 |
| 156 | Pr and Mo Co-Doped SrFeO3□as an Efficient Cathode for Pure CO2 Reduction Reaction in a Solid Oxide Electrolysis Cell. *Energy Technology*, **2020**, 8, 2000539 | 3.5 | 1 |
| 155 | Manipulating the regioselectivity of a Solanum lycopersicum epoxide hydrolase for the enantioconvergent synthesis of enantiopure alkane- and alkene-1,2-diols. *Catalysis Science and Technology*, **2020**, 10, 5886-5895 | 5.5 | 3 |
| 154 | Focused acoustic vortex generated by a circular array of planar sector transducers using an acoustic lens, and its application in object manipulation. *Journal of Applied Physics*, **2020**, 128, 084901 | 2.5 | 5 |
| 153 | Enantioselective dicarbofunctionalization of ()-alkenyloxindoles with pyridinium salts by chiral Lewis acid/photo relay catalysis. *Chemical Communications*, **2020**, 56, 12757-12760 | 5.8 | 2 |

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| 152 | Diversified Transformations of Tetrahydroindolizines to Construct Chiral 3-Arylindolizines and Dicarbofunctionalized 1,5-Diketones. *Journal of the American Chemical Society*, **2020**, 142, 15975-15985 | 16.4 | 29 |
| 151 | In vivo evaluation of two-dimensional temperature variation in perirenal fat of pigs with B-mode ultrasound. *Journal of Applied Physics*, **2019**, 126, 084902 | 2.5 | 3 |
| 150 | Cell-cycle-dependences of membrane permeability and viability observed for HeLa cells undergoing multi-bubble-cell interactions. *Ultrasonics Sonochemistry*, **2019**, 53, 178-186 | 8.9 | 8 |
| 149 | Recent developments in electrode materials for potassium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 4334-4352 | 13 | 155 |
| 148 | Enhanced eradication of Pseudomonas aeruginosa bio-films by using ultrasound combined with neutrophil and antibiotics. *Applied Acoustics*, **2019**, 152, 101-109 | 3.1 | 3 |
| 147 | Low-intensity pulsed ultrasound promotes apoptosis and inhibits angiogenesis via p38 signaling-mediated endoplasmic reticulum stress in human endothelial cells. *Molecular Medicine Reports*, **2019**, 19, 4645-4654 | 2.9 | 7 |
| 146 | Fractal Dimension Differentiation between Benign and Malignant Thyroid Nodules from Ultrasonography. *Applied Sciences (Switzerland)*, **2019**, 9, 1494 | 2.6 | 2 |
| 145 | Kuntai capsule attenuates premature ovarian failure through the PI3K/AKT/mTOR pathway. *Journal of Ethnopharmacology*, **2019**, 239, 111885 | 5 | 12 |
| 144 | Enhancement of the polymerase chain reaction by tungsten disulfide.. *RSC Advances*, **2019**, 9, 9373-9378 | 3.7 | 2 |
| 143 | Two-Dimensional Mapping Separating the Acoustic Radiation Force and Streaming in Microfluidics. *Physical Review Applied*, **2019**, 11, | 4.3 | 7 |
| 142 | Low-frequency anechoic metasurface based on coiled channel of gradient cross-section. *Applied Physics Letters*, **2019**, 114, 083501 | 3.4 | 31 |
| 141 | Noninvasive Treatment-Efficacy Evaluation for HIFU Therapy Based on Magneto-Acousto-Electrical Tomography. *IEEE Transactions on Biomedical Engineering*, **2019**, 66, 666-674 | 5 | 9 |
| 140 | Modelling of SAW-PDMS acoustofluidics: physical fields and particle motions influenced by different descriptions of the PDMS domain. *Lab on A Chip*, **2019**, 19, 2728-2740 | 7.2 | 21 |
| 139 | Low-intensity pulsed ultrasound inhibits adipogenic differentiation via HDAC1 signalling in rat visceral preadipocytes. *Adipocyte*, **2019**, 8, 292-303 | 3.2 | 4 |
| 138 | Prediction of suspicious thyroid nodule using artificial neural network based on radiofrequency ultrasound and conventional ultrasound: A preliminary study. *Ultrasonics*, **2019**, 99, 105951 | 3.5 | 7 |
| 137 | p38 MAPK signaling is a key mediator for low-intensity pulsed ultrasound (LIPUS) in cultured human omental adipose-derived mesenchymal stem cells. *American Journal of Translational Research (discontinued)*, **2019**, 11, 418-429 | 3 | 4 |
| 136 | Photo- and Sono-Dynamic Therapy: A Review of Mechanisms and Considerations for Pharmacological Agents Used in Therapy Incorporating Light and Sound. *Current Pharmaceutical Design*, **2019**, 25, 401-412 | 3.3 | 21 |
| 135 | An Online Impedance Analysis and Matching System for Ultrasonic Transducers. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2019**, 66, 591-599 | 3.2 | 3 |

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| 134 | Evaluation of Cracks in Metallic Material Using a Self-Organized Data-Driven Model of Acoustic Echo-Signal. *Applied Sciences (Switzerland)*, **2019**, 9, 95 | 2.6 | 3 |
| 133 | Electro-acupuncture attenuates the mice premature ovarian failure via mediating PI3K/AKT/mTOR pathway. *Life Sciences*, **2019**, 217, 169-175 | 6.8 | 17 |
| 132 | Conductivity Anisotropy Influence on Acoustic Sources for Magnetoacoustic Tomography With Magnetic Induction. *IEEE Transactions on Biomedical Engineering*, **2018**, 65, 2512-2518 | 5 | 3 |
| 131 | Near-field multiple traps of paraxial acoustic vortices with strengthened gradient force generated by sector transducer array. *Journal of Applied Physics*, **2018**, 123, 034901 | 2.5 | 8 |
| 130 | Non-invasive treatment efficacy evaluation for high-intensity focused ultrasound therapy using magnetically induced magnetoacoustic measurement. *Journal of Applied Physics*, **2018**, 123, 154901 | 2.5 | 2 |
| 129 | Sonoporation-induced cell membrane permeabilization and cytoskeleton disassembly at varied acoustic and microbubble-cell parameters. *Scientific Reports*, **2018**, 8, 3885 | 4.9 | 44 |
| 128 | Overcoming the supercooling of hydrated salts: three-dimensional graphene composite PCMs. *Micro and Nano Letters*, **2018**, 13, 849-852 | 0.9 | 1 |
| 127 | Asymmetric Synthesis of Tetrahydroindolizines by Bimetallic Relay Catalyzed Cycloaddition of Pyridinium Ylides. *Angewandte Chemie - International Edition*, **2018**, 57, 12323-12327 | 16.4 | 63 |
| 126 | The enhanced HIFU-induced thermal effect via magnetic ultrasound contrast agent microbubbles. *Ultrasonics Sonochemistry*, **2018**, 49, 111-117 | 8.9 | 5 |
| 125 | Prediction of HIFU Propagation in a Dispersive Medium via KhokhlovZabolotskayaKuznetsov Model Combined with a Fractional Order Derivative. *Applied Sciences (Switzerland)*, **2018**, 8, 609 | 2.6 | 3 |
| 124 | Enantioselective Synthesis of 2,2,3-Trisubstituted Indolines via Bimetallic Relay Catalysis of Diazoketones with Enones. *Organic Letters*, **2018**, 20, 4536-4539 | 6.2 | 29 |
| 123 | A facile template free synthesis of porous carbon nanospheres with high capacitive performance. *Science China Chemistry*, **2018**, 61, 538-544 | 7.9 | 8 |
| 122 | N, NDioxide/Gd(OTf) Complex-Promoted Asymmetric Aldol Reaction of Silyl Ketene Imines with Isatins: Water Plays an Important Role. *Organic Letters*, **2018**, 20, 5314-5318 | 6.2 | 11 |
| 121 | Asymmetric Synthesis of Tetrahydroindolizines by Bimetallic Relay Catalyzed Cycloaddition of Pyridinium Ylides. *Angewandte Chemie*, **2018**, 130, 12503-12507 | 3.6 | 22 |
| 120 | Interaction between encapsulated microbubbles: A finite element modelling study. *Chinese Physics B*, **2018**, 27, 084302 | 1.2 | 4 |
| 119 | Low-intensity pulsed ultrasound suppresses proliferation and promotes apoptosis via p38 MAPK signaling in rat visceral preadipocytes. *American Journal of Translational Research (discontinued)*, **2018**, 10, 948-956 | 3 | 12 |
| 118 | Acoustic Characterization and Enhanced Ultrasound Imaging of Long-Circulating Lipid-Coated Microbubbles. *Journal of Ultrasound in Medicine*, **2018**, 37, 1243-1256 | 2.9 | 14 |
| 117 | Random phase screen influence of the inhomogeneous tissue layer on the generation of acoustic vortices. *Chinese Physics B*, **2018**, 27, 034301 | 1.2 | 4 |

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| 116 | Nonlinear acoustic-power measurement based on fundamental focal axial vibration velocity for high-intensity focused ultrasound. *Journal of Applied Physics*, **2018**, 124, 214905 | 2.5 | 3 |
| 115 | Regulation of multiple off-axis acoustic vortices with a centered quasi-plane wave. *Journal of Applied Physics*, **2018**, 124, 114901 | 2.5 | 5 |
| 114 | Enantioselective [2+2] Photocycloaddition Reactions of Enones and Olefins with Visible Light Mediated by N,NQDioxide-Metal Complexes. *Chemistry - A European Journal*, **2018**, 24, 19361-19367 | 4.8 | 19 |
| 113 | Investigation of a multi-element focused air-coupled transducer. *AIP Advances*, **2018**, 8, 095010 | 1.5 | 6 |
| 112 | Enantioselective [3 + 2] cycloaddition and rearrangement of thiazolium salts to synthesize thiazole and 1,4-thiazine derivatives. *Organic Chemistry Frontiers*, **2018**, 5, 2126-2131 | 5.2 | 9 |
| 111 | Ultrasound-Enhanced Protective Effect of Tetramethylpyrazine via the ROS/HIF-1A Signaling Pathway in an in Vitro Cerebral Ischemia/Reperfusion Injury Model. *Ultrasound in Medicine and Biology*, **2018**, 44, 1786-1798 | 3.5 | 10 |
| 110 | Fourier and non-Fourier bio-heat transfer models to predict ex vivo temperature response to focused ultrasound heating. *Journal of Applied Physics*, **2018**, 123, 174906 | 2.5 | 15 |
| 109 | Acoustic radiation torque of an acoustic-vortex spanner exerted on axisymmetric objects. *Applied Physics Letters*, **2018**, 112, 254101 | 3.4 | 8 |
| 108 | Multi-relaxation-time lattice Boltzmann modeling of the acoustic field generated by focused transducer. *International Journal of Modern Physics C*, **2017**, 28, 1750038 | 1.1 | 2 |
| 107 | Enhanced porosity and permeability of three-dimensional alginate scaffolds via acoustic microstreaming induced by low-intensity pulsed ultrasound. *Ultrasonics Sonochemistry*, **2017**, 37, 279-285 | 8.9 | 10 |
| 106 | Effects of structural differences of graphene and the preparation strategies on the photocatalytic activity of grapheneTiO2 composite film. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 4965-4973 | 2.1 | 4 |
| 105 | Uniform tissue lesion formation induced by high-intensity focused ultrasound along a spiral pathway. *Ultrasonics*, **2017**, 77, 38-46 | 3.5 | 6 |
| 104 | Deep-level stereoscopic multiple traps of acoustic vortices. *Journal of Applied Physics*, **2017**, 121, 164901 | 2.5 | 15 |
| 103 | Noninvasive treatment efficacy monitoring and dose control for high-intensity focused ultrasound therapy using relative electrical impedance variation. *Chinese Physics B*, **2017**, 26, 054302 | 1.2 | 7 |
| 102 | Reduced graphene oxide modified mesoporous FeNi alloy/carbon microspheres for enhanced broadband electromagnetic wave absorbers. *Materials Chemistry Frontiers*, **2017**, 1, 1786-1794 | 7.8 | 39 |
| 101 | Chiral N,NQdioxide/Co(ii)-promoted asymmetric 1,3-dipolar cycloaddition of nitrones with methyleneindolinones. *Chemical Communications*, **2017**, 53, 7925-7928 | 5.8 | 30 |
| 100 | Interaction between cavitation microbubble and cell: A simulation of sonoporation using boundary element method (BEM). *Ultrasonics Sonochemistry*, **2017**, 39, 863-871 | 8.9 | 27 |
| 99 | Acoustic field of an ultrasonic cavity resonator with two open ends: Experimental measurements and lattice Boltzmann method modeling. *Journal of Applied Physics*, **2017**, 121, 124502 | 2.5 | 5 |

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| 98 | Self-assembly of new M(II) coordination polymers based on asymmetric 1,3,4-oxadiazole-containing ligands: effect of counterions and magnetic properties. *CrystEngComm*, **2017**, 19, 5864-5872 | 3.3 | 14 |
| 97 | Preventing microbial biofilms on catheter tubes using ultrasonic guided waves. *Scientific Reports*, **2017**, 7, 616 | 4.9 | 14 |
| 96 | Quantitative assessment of acoustic pressure in one-dimensional acoustofluidic devices driven by standing surface acoustic waves. *Applied Physics Letters*, **2017**, 111, 043508 | 3.4 | 6 |
| 95 | Enhanced ultrasonic focusing and temperature elevation via a therapeutic ultrasonic transducer with sub-wavelength periodic structure. *Applied Physics Letters*, **2017**, 111, 053701 | 3.4 | 3 |
| 94 | Acoustic characterization of high intensity focused ultrasound field generated from a transmitter with large aperture **2017**, | | 2 |
| 93 | Accurate acoustic power measurement for low-intensity focused ultrasound using focal axial vibration velocity. *Journal of Applied Physics*, **2017**, 122, 014901 | 2.5 | 5 |
| 92 | Impact of cavitation on lesion formation induced by high intensity focused ultrasound. *Chinese Physics B*, **2017**, 26, 054301 | 1.2 | 3 |
| 91 | Ambient Pressure Evaluation Through Sub-Harmonic Response of Chirp-Sonicated Microbubbles. *Ultrasound in Medicine and Biology*, **2017**, 43, 332-340 | 3.5 | 3 |
| 90 | A nonlinear approach to identify pathological change of thyroid nodules based on statistical analysis of ultrasound RF signals. *Scientific Reports*, **2017**, 7, 16930 | 4.9 | 3 |
| 89 | Cell-cycle-specific Cellular Responses to Sonoporation. *Theranostics*, **2017**, 7, 4894-4908 | 12.1 | 28 |
| 88 | Investigation into the Effect of Acoustic Radiation Force and Acoustic Streaming on Particle Patterning in Acoustic Standing Wave Fields. *Sensors*, **2017**, 17, | 3.8 | 21 |
| 87 | Acoustic Source Analysis of Magnetoacoustic Tomography With Magnetic Induction for Conductivity Gradual-Varying Tissues. *IEEE Transactions on Biomedical Engineering*, **2016**, 63, 758-64 | 5 | 13 |
| 86 | Transcriptome comparison reveals a genetic network regulating the lower temperature limit in fish. *Scientific Reports*, **2016**, 6, 28952 | 4.9 | 27 |
| 85 | Preparation and Thermal Properties of Graphene Oxide Microencapsulated Phase Change Materials. *Nanoscale and Microscale Thermophysical Engineering*, **2016**, 20, 147-157 | 3.7 | 13 |
| 84 | Effect of microbubble-enhanced ultrasound on percutaneous ethanol ablation of rat walker-256 tumour. *European Radiology*, **2016**, 26, 3017-25 | 8 | 6 |
| 83 | Microbubble oscillating in a microvessel filled with viscous fluid: A finite element modeling study. *Ultrasonics*, **2016**, 66, 54-64 | 3.5 | 21 |
| 82 | Harmonic responses and cavitation activity of encapsulated microbubbles coupled with magnetic nanoparticles. *Ultrasonics Sonochemistry*, **2016**, 29, 309-16 | 8.9 | 19 |
| 81 | Characterization of mechanical properties of hybrid contrast agents by combining atomic force microscopy with acoustic/optic assessments. *Journal of Biomechanics*, **2016**, 49, 319-25 | 2.9 | 8 |

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| 80 | Transducer selection and application in magnetoacoustic tomography with magnetic induction. *Journal of Applied Physics*, **2016**, 119, 094903 | 2.5 | 9 |
| 79 | Nonlinear response of ultrasound contrast agent microbubbles: From fundamentals to applications. *Chinese Physics B*, **2016**, 25, 124308 | 1.2 | 3 |
| 78 | High thermoelectric performance of superionic argyrodite compound Ag8SnSe6. *Journal of Materials Chemistry C*, **2016**, 4, 5806-5813 | 7.1 | 60 |
| 77 | Global identification of the genetic networks and cis-regulatory elements of the cold response in zebrafish. *Nucleic Acids Research*, **2015**, 43, 9198-213 | 20.1 | 22 |
| 76 | Acoustic non-diffracting Airy beam. *Journal of Applied Physics*, **2015**, 117, 104503 | 2.5 | 40 |
| 75 | Simultaneous synthesis of diverse graphene via electrochemical reduction of graphene oxide. *Journal of Applied Electrochemistry*, **2015**, 45, 453-462 | 2.6 | 13 |
| 74 | Controllable growth of graphene dendrite and application to electrochemical capacitors. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 4337-4343 | 2.1 | 2 |
| 73 | One-step synthesis of 5-ethyl-2-methylpyridine from NH4HCO3 and C2H5OH under hydrothermal condition. *Chemical Research in Chinese Universities*, **2015**, 31, 249-252 | 2.2 | |
| 72 | Double-scattering/reflection in a single nanoparticle for intensified ultrasound imaging. *Scientific Reports*, **2015**, 5, 8766 | 4.9 | 41 |
| 71 | Asymmetric [3 + 2] Cycloaddition of Methyleneindolinones with N,N-Cyclic Azomethine Imines Catalyzed by a N,N-Dioxide-Mg(OTf)2 Complex. *Journal of Organic Chemistry*, **2015**, 80, 9691-9 | 4.2 | 45 |
| 70 | Frequency dependence of the acoustic field generated from a spherical cavity transducer with open ends. *AIP Advances*, **2015**, 5, 127218 | 1.5 | 2 |
| 69 | Construction of multifunctional films based on graphene-TiO2 composite materials for strain sensing and photodegradation. *RSC Advances*, **2015**, 5, 104785-104791 | 3.7 | 16 |
| 68 | Overpressure Dependence of Sub-Harmonic Generation from Contrast Agent SonoVue Microbubbles. *Acta Acustica United With Acustica*, **2015**, 101, 55-61 | 1.5 | 1 |
| 67 | Low intensity pulse ultrasound stimulate chondrocytes growth in a 3-D alginate scaffold through improved porosity and permeability. *Ultrasonics*, **2015**, 58, 43-52 | 3.5 | 9 |
| 66 | Reception pattern influence on magnetoacoustic tomography with magnetic induction. *Chinese Physics B*, **2015**, 24, 014302 | 1.2 | 10 |
| 65 | Radiation theory comparison for magnetoacoustic tomography with magnetic induction (MAT-MI). *Science Bulletin*, **2014**, 59, 3246-3254 | | 6 |
| 64 | Dynamics of targeted microbubble adhesion under pulsatile compared with steady flow. *Ultrasound in Medicine and Biology*, **2014**, 40, 2445-57 | 3.5 | 1 |
| 63 | Influence of temperature and voltage on electrochemical reduction of graphene oxide. *Bulletin of Materials Science*, **2014**, 37, 629-634 | 1.7 | 7 |

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| 62 | Variations in temperature distribution and tissue lesion formation induced by tissue inhomogeneity for therapeutic ultrasound. *Ultrasound in Medicine and Biology*, **2014**, 40, 1857-68 | 3.5 | 6 |
| 61 | Fine physical and genetic mapping of powdery mildew resistance gene MlIW172 originating from wild emmer (Triticum dicoccoides). *PLoS ONE*, **2014**, 9, e100160 | 3.7 | 28 |
| 60 | Microstreaming velocity field and shear stress created by an oscillating encapsulated microbubble near a cell membrane. *Chinese Physics B*, **2014**, 23, 124302 | 1.2 | 10 |
| 59 | Molecular structure dependence of acoustic nonlinearity parameter B/A for silicone oils. *Chinese Physics B*, **2014**, 23, 054302 | 1.2 | 1 |
| 58 | Investigation on the relationship between overpressure and sub-harmonic response from encapsulated microbubbles. *Chinese Physics B*, **2014**, 23, 104302 | 1.2 | 1 |
| 57 | Acoustic focusing of sub-wavelength scale achieved by multiple Fabry-Perot resonance effect. *Journal of Applied Physics*, **2014**, 115, 104504 | 2.5 | 6 |
| 56 | Acoustic characterization of high intensity focused ultrasound fields generated from a transmitter with a large aperture. *Journal of Applied Physics*, **2014**, 115, 114902 | 2.5 | 11 |
| 55 | Pressure distribution based optimization of phase-coded acoustical vortices. *Journal of Applied Physics*, **2014**, 115, 084909 | 2.5 | 11 |
| 54 | Linear phase distribution of acoustical vortices. *Journal of Applied Physics*, **2014**, 116, 024905 | 2.5 | 9 |
| 53 | Synthesis of H V O /Reduced Graphene Oxide Composite as a Promising Cathode Material for Lithium-Ion Batteries. *ChemPlusChem*, **2014**, 79, 447-453 | 2.8 | 35 |
| 52 | Mechanical and dynamic characteristics of encapsulated microbubbles coupled by magnetic nanoparticles as multifunctional imaging and drug delivery agents. *Physics in Medicine and Biology*, **2014**, 59, 6729-47 | 3.8 | 19 |
| 51 | Real-Time Monitoring and Quantitative Evaluation of Cavitation Bubbles Induced by High Intensity Focused Ultrasound Using B-Mode Imaging. *Chinese Physics Letters*, **2014**, 31, 034302 | 1.8 | 4 |
| 50 | Ultrasound-enhanced protective effect of tetramethylpyrazine against cerebral ischemia/reperfusion injury. *PLoS ONE*, **2014**, 9, e113673 | 3.7 | 26 |
| 49 | Nonlinear oscillation of pathological vocal folds during vocalization. *Science China: Physics, Mechanics and Astronomy*, **2013**, 56, 1324-1328 | 3.6 | 3 |
| 48 | Investigation on the inertial cavitation threshold and shell properties of commercialized ultrasound contrast agent microbubbles. *Journal of the Acoustical Society of America*, **2013**, 134, 1622-31 | 2.2 | 35 |
| 47 | Comparative study of lesions created by high-intensity focused ultrasound using sequential discrete and continuous scanning strategies. *IEEE Transactions on Biomedical Engineering*, **2013**, 60, 763-9 | 5 | 10 |
| 46 | Ultrasound-assisted permeability improvement and acoustic characterization for solid-state fabricated PLA foams. *Ultrasonics Sonochemistry*, **2013**, 20, 137-43 | 8.9 | 18 |
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