Malcolm J W Povey

List of Publications by Year in descending order

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66343 51608 7,904 137 42 86 citations h-index g-index papers 139 139 139 7611 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|--|--------------|-----------|
| 1 | Agar/TiO2/radish anthocyanin/neem essential oil bionanocomposite bilayer films with improved bioactive capability and electrochemical writing property for banana preservation. Food Hydrocolloids, 2022, 123, 107187. | 10.7 | 50 |
| 2 | A visual indicator based on curcumin with high stability for monitoring the freshness of freshwater shrimp, Macrobrachium rosenbergii. Journal of Food Engineering, 2021, 292, 110290. | 5.2 | 47 |
| 3 | Bilayer pH-sensitive colorimetric films with light-blocking ability and electrochemical writing property: Application in monitoring crucian spoilage in smart packaging. Food Chemistry, 2021, 336, 127634. | 8.2 | 58 |
| 4 | Estimating the asphaltene critical nanoaggregation concentration region using ultrasonic measurements and Bayesian inference. Scientific Reports, 2021, 11, 6698. | 3.3 | 4 |
| 5 | Dynamic monitoring of glycine crystallisation with low power ultrasound reflection spectroscopy. Chemical Engineering Research and Design, 2021, 170, 213-223. | 5 . 6 | 4 |
| 6 | Amine-responsive bilayer films with improved illumination stability and electrochemical writing property for visual monitoring of meat spoilage. Sensors and Actuators B: Chemical, 2020, 302, 127130. | 7.8 | 68 |
| 7 | Dynamic moisture loss explored through quantitative super-resolution microscopy, spatial micro-viscosity and macroscopic analyses in acid milk gels. Food Hydrocolloids, 2020, 101, 105501. | 10.7 | 12 |
| 8 | Extruded low density polyethylene-curcumin film: A hydrophobic ammonia sensor for intelligent food packaging. Food Packaging and Shelf Life, 2020, 26, 100595. | 7. 5 | 64 |
| 9 | Latest advances in imaging techniques for characterizing soft, multiphasic food materials. Advances in Colloid and Interface Science, 2020, 279, 102154. | 14.7 | 22 |
| 10 | Acoustic attenuation spectroscopy and helium ion microscopy study of rehydration of dairy powder. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 600, 124795. | 4.7 | 5 |
| 11 | Fast field cycling NMR relaxometry studies of molten and cooled cocoa butter. Molecular Physics, 2019, 117, 1020-1027. | 1.7 | 8 |
| 12 | Cross-correlation analysis to quantify relative spatial distributions of fat and protein in super-resolution microscopy images of dairy gels. Food Hydrocolloids, 2019, 97, 105225. | 10.7 | 16 |
| 13 | Acoustic characterisation of pH dependant reversible micellar casein aggregation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 568, 259-265. | 4.7 | 14 |
| 14 | Early stages of fat crystallisation evaluated by lowâ€field NMR and smallâ€angle Xâ€ray scattering. Magnetic Resonance in Chemistry, 2019, 57, 686-694. | 1.9 | 10 |
| 15 | A colorimetric hydrogen sulfide sensor based on gellan gum-silver nanoparticles bionanocomposite for monitoring of meat spoilage in intelligent packaging. Food Chemistry, 2019, 290, 135-143. | 8.2 | 153 |
| 16 | Super-resolution microscopy and empirically validated autocorrelation image analysis discriminates microstructures of dairy derived gels. Food Hydrocolloids, 2019, 90, 62-71. | 10.7 | 27 |
| 17 | Natural Biomaterial-Based Edible and pH-Sensitive Films Combined with Electrochemical Writing for Intelligent Food Packaging. Journal of Agricultural and Food Chemistry, 2018, 66, 12836-12846. | 5.2 | 123 |
| 18 | Global Small-Angle X-ray Scattering Data Analysis of Triacylglycerols in the α-Phase (Part II). Journal of Physical Chemistry B, 2018, 122, 10330-10336. | 2.6 | 10 |

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| 19 | Ultrasonic wave propagation in powders. Journal of Physics: Conference Series, 2018, 1017, 012001. | 0.4 | 1 |
| 20 | Global Small-Angle X-ray Scattering Data Analysis of Triacylglycerols in the Molten State (Part I). Journal of Physical Chemistry B, 2018, 122, 10320-10329. | 2.6 | 18 |
| 21 | Applications of ultrasonics in food science - novel control of fat crystallization and structuring. Current Opinion in Colloid and Interface Science, 2017, 28, 1-6. | 7.4 | 32 |
| 22 | Determination of Asphaltene Critical Nanoaggregate Concentration Region Using Ultrasound Velocity Measurements. Scientific Reports, 2017, 7, 16125. | 3.3 | 15 |
| 23 | Acoustic properties of crystallized fat: Relation between polymorphic form, microstructure, fracturing behavior, and sound intensity. European Journal of Lipid Science and Technology, 2016, 118, 1257-1270. | 1.5 | 5 |
| 24 | Nucleation in food colloids. Journal of Chemical Physics, 2016, 145, 211906. | 3.0 | 7 |
| 25 | Development of a discrete element model with moving realistic geometry to simulate particle motion in a Mi-Pro granulator. Computers and Chemical Engineering, 2016, 93, 234-247. | 3.8 | 1 |
| 26 | Non-invasive sensing for food reassurance. Analyst, The, 2016, 141, 1587-1610. | 3.5 | 37 |
| 27 | Bacteria counting method based on polyaniline/bacteria thin film. Biosensors and Bioelectronics, 2016, 81, 75-79. | 10.1 | 15 |
| 28 | COMSOL modelling of the acoustoelastic effect. Journal of Physics: Conference Series, 2015, 581, 012008. | 0.4 | 5 |
| 29 | Identification of important mechanical and acoustic parameters for the sensory quality of cocoa butter alternatives. Food Research International, 2015, 76, 637-644. | 6.2 | 8 |
| 30 | Crystal nucleation in food colloids. Food Hydrocolloids, 2014, 42, 118-129. | 10.7 | 36 |
| 31 | Enzyme activity determination using ultrasound. Journal of Physics: Conference Series, 2014, 498, 012003. | 0.4 | 2 |
| 32 | Acoustic emission monitoring from a lab scale high shear granulator—A novel approach. International Journal of Pharmaceutics, 2014, 465, 262-274. | 5.2 | 6 |
| 33 | Multiple scattering in dispersions, for long wavelength thermoacoustic solutions. Journal of Physics: Conference Series, 2014, 498, 012005. | 0.4 | 5 |
| 34 | Can airborne ultrasound monitor bubble size in chocolate?. Journal of Physics: Conference Series, 2014, 498, 012001. | 0.4 | 2 |
| 35 | Advances in the ultrasound characterization of dry-cured meat products. Journal of Food Engineering, 2013, 119, 464-470. | 5.2 | 29 |
| 36 | Ultrasound particle sizing: A review. Particuology, 2013, 11, 135-147. | 3.6 | 59 |

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| 37 | The properties of ZnO nanofluids and the role of H2O2 in the disinfection activity against Escherichia coli. Water Research, 2013, 47, 4013-4021. | 11.3 | 41 |
| 38 | Post-processing of polymer foam tissue scaffolds with high power ultrasound: A route to increased pore interconnectivity, pore size and fluid transport. Materials Science and Engineering C, 2013, 33, 4825-4832. | 7.3 | 18 |
| 39 | Ultrasonic and acoustic microscopy: principles and applications to food microstructures. , 2013, , 192-222. | | 4 |
| 40 | Application of a maximum likelihood algorithm to ultrasound modulated optical tomography. Journal of Biomedical Optics, 2012, 17, 026014. | 2.6 | 5 |
| 41 | Acoustic microscopy in the food industry. IOP Conference Series: Materials Science and Engineering, 2012, 42, 012006. | 0.6 | 0 |
| 42 | The acoustic spectroscopy of asphaltene aggregation in petroleum. IOP Conference Series: Materials Science and Engineering, 2012, 42, 012022. | 0.6 | 3 |
| 43 | Ultrasonic study of the gelation of gelatin: Phase diagram, hysteresis and kinetics. Food Hydrocolloids, 2012, 26, 99-107. | 10.7 | 73 |
| 44 | Effects of pH on the ability of flavonoids to act as Pickering emulsion stabilizers. Colloids and Surfaces B: Biointerfaces, 2012, 92, 84-90. | 5.0 | 114 |
| 45 | Development of a simple model device for in vitro gastric digestion investigation. Food and Function, 2011, 2, 174. | 4.6 | 61 |
| 46 | Particle-Stabilizing Effects of Flavonoids at the Oilâ [^] Water Interface. Journal of Agricultural and Food Chemistry, 2011, 59, 2636-2645. | 5.2 | 140 |
| 47 | Application of a maximum likelihood algorithm to ultrasound modulated optical tomography. , 2011, , . | | 1 |
| 48 | Investigation of bovine serum albumin denaturation using ultrasonic spectroscopy. Food Hydrocolloids, 2011, 25, 1233-1241. | 10.7 | 23 |
| 49 | Characterization of tissue scaffolds using optics and ultrasound. Proceedings of SPIE, 2011, , . | 0.8 | 3 |
| 50 | Longitudinal acoustic properties of poly(lactic acid) and poly(lactic- <i>co</i> -glycolic acid). Biomedical Materials (Bristol), 2010, 5, 055004. | 3.3 | 43 |
| 51 | Variables selection methods in near-infrared spectroscopy. Analytica Chimica Acta, 2010, 667, 14-32. | 5.4 | 853 |
| 52 | Mechanistic investigation into antibacterial behaviour of suspensions of ZnO nanoparticles against E. coli. Journal of Nanoparticle Research, 2010, 12, 1625-1636. | 1.9 | 393 |
| 53 | A perturbation solution for long wavelength thermoacoustic propagation in dispersions. Journal of Computational and Applied Mathematics, 2010, 234, 1996-2002. | 2.0 | 4 |
| 54 | A versatile scanning acoustic platform. Measurement Science and Technology, 2010, 21, 045901. | 2.6 | 15 |

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| 55 | DEM Simulation of Particle Motion in a MiPro Granulator. , 2009, , . | | O |
| 56 | Quasi-isothermal crystallisation kinetics, non-classical nucleation and surfactant-dependent crystallisation of emulsions. European Journal of Lipid Science and Technology, 2009, 111, 236-242. | 1.5 | 14 |
| 57 | Ultrasonic inactivation of Bacillus α-amylase. I. effect of gas content and emitting face of probe. Ultrasonics Sonochemistry, 2008, 15, 133-142. | 8.2 | 109 |
| 58 | ZnO nanofluids – A potential antibacterial agent. Progress in Natural Science: Materials International, 2008, 18, 939-944. | 4.4 | 396 |
| 59 | Acoustic techniques to characterize food microstructure. , 2007, , 311-333. | | 3 |
| 60 | Investigation into the antibacterial behaviour of suspensions of ZnO nanoparticles (ZnO nanofluids). Journal of Nanoparticle Research, 2007, 9, 479-489. | 1.9 | 1,229 |
| 61 | Melting Point Depression of the Surface Layer inn-Alkane Emulsions and Its Implications for Fat Destabilization in Ice Cream. Crystal Growth and Design, 2006, 6, 297-301. | 3.0 | 26 |
| 62 | A comparative study of ultrasound and laser light diffraction techniques for particle size determination in dairy beverages. Measurement Science and Technology, 2006, 17, 289-297. | 2.6 | 47 |
| 63 | Acoustic Methods for Particle Characterisation. KONA Powder and Particle Journal, 2006, 24, 126-133. | 1.7 | 14 |
| 64 | CHARACTERIZATION OF RECONSTITUTED MILK POWDER BY ULTRASOUND SPECTROSCOPY. Journal of Food Quality, 2006, 29, 405-418. | 2.6 | 21 |
| 65 | Crispness assessment of roasted almonds by an integrated approach to texture description: texture, acoustics, sensory and structure. Journal of Chemometrics, 2006, 20, 311-320. | 1.3 | 112 |
| 66 | A perturbation approach to acoustic scattering in dispersions. Journal of the Acoustical Society of America, 2006, 120, 719-732. | 1.1 | 3 |
| 67 | Estimating organic chain length through sound velocity measurements. Ultrasonics, 2005, 43, 219-226. | 3.9 | 2 |
| 68 | Ultrasound techniques for characterizing colloidal dispersions. Reports on Progress in Physics, 2005, 68, 1541-1637. | 20.1 | 236 |
| 69 | ACOUSTIC ENVELOPE DETECTOR FOR CRISPNESS ASSESSMENT OF BISCUITS. Journal of Texture Studies, 2005, 36, 139-156. | 2.5 | 133 |
| 70 | A study on the primary and secondary nucleation of ice by power ultrasound. Ultrasonics, 2005, 43, 227-230. | 3.9 | 227 |
| 71 | Apparatus for determining particle size. Journal of the Acoustical Society of America, 2005, 117, 1689. | 1.1 | 0 |
| 72 | Acoustic Propagation in Dispersions in the Long Wavelength Limit. SIAM Journal on Applied Mathematics, 2005, 66, 489-509. | 1.8 | 9 |

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| 73 | Structure and transformation of low-temperature phases of 1,3-distearoyl-2-oleoyl glycerol. European Journal of Lipid Science and Technology, 2004, 106, 319-324. | 1.5 | 6 |
| 74 | The sonocrystallisation of ice in sucrose solutions: primary and secondary nucleation. Ultrasonics, 2003, 41, 595-604. | 3.9 | 188 |
| 75 | Acoustic Propagation in Dispersions and the Geometric Theory of Diffraction. SIAM Journal on Applied Mathematics, 2003, 63, 834-849. | 1.8 | 10 |
| 76 | The molecular basis for sound velocity in n-alkanes, 1-alcohols and dimethylsiloxanes. Physical Chemistry Chemical Physics, 2003, 5, 73-78. | 2.8 | 47 |
| 77 | Characterizing cocoa butter seed crystals by the oil-in-water emulsion crystallization method. JAOCS, Journal of the American Oil Chemists' Society, 2002, 79, 993-1002. | 1.9 | 25 |
| 78 | Pulse echo comparison method with FSUPER to measure velocity dispersion in n-tetradecane in water emulsions. Ultrasonics, 2002, 40, 37-41. | 3.9 | 25 |
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| 80 | An ultrasound velocity and attenuation scanner for viewing the temporal evolution of a dispersed phase in fluids. Review of Scientific Instruments, 2001, 72, 4234-4241. | 1.3 | 18 |
| 81 | Ultrasonic studies of the development of flocculation in mixed sodium caseinate and Tween 20 emulsions., 2001,, 132-135. | | 1 |
| 82 | Kinetics of Crystallization in n-Hexadecane and Cocoa Butter Oil-in-Water Emulsions Accounting for Droplet Collision-Mediated Nucleation. Journal of Colloid and Interface Science, 2000, 232, 370-380. | 9.4 | 58 |
| 83 | Particulate characterization by ultrasound. Pharmaceutical Science & Technology Today, 2000, 3, 373-380. | 0.7 | 9 |
| 84 | Determination of the adiabatic compressibility of bovine serum albumen in concentrated solution by a new ultrasonic method. Food Hydrocolloids, 2000, 14, 83-91. | 10.7 | 18 |
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| 86 | Stability of Emulsions Containing Both Sodium Caseinate and Tween 20. Journal of Colloid and Interface Science, 1999, 212, 466-473. | 9.4 | 88 |
| 87 | Ultrasonic spectroscopy studies of casein in water. International Dairy Journal, 1999, 9, 299-303. | 3.0 | 22 |
| 88 | Shear stiffness and density in potato parenchyma. International Journal of Food Science and Technology, 1998, 33, 461-464. | 2.7 | 20 |
| 89 | Ultrasonics of food. Contemporary Physics, 1998, 39, 467-478. | 1.8 | 46 |
| 90 | Reply to Comment on "Distribution of Temperature in Globular Molecules, Cells, or Droplets in Temperature-Jump, Sound Velocity, and Pulsed LASER Experiments― Journal of Physical Chemistry B, 1998, 102, 7510-7510. | 2.6 | 3 |

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| 91 | Thermal Scattering Must Be Accounted for in the Determination of Adiabatic Compressibility. Journal of Physical Chemistry B, 1997, 101, 1110-1112. | 2.6 | 28 |
| 92 | The effect of partial glycerides on trilaurin crystallization. JAOCS, Journal of the American Oil Chemists' Society, 1997, 74, 169-171. | 1.9 | 49 |
| 93 | Creaming and Flocculation of Oil-in-Water Emulsions Containing Sodium Caseinate. Journal of Colloid and Interface Science, 1997, 185, 515-529. | 9.4 | 228 |
| 94 | Modeling of Combined Creaming and Flocculation in Emulsions. Journal of Colloid and Interface Science, 1997, 186, 80-89. | 9.4 | 30 |
| 95 | Crystallization kinetics in oil-in-water emulsions containing a mixture of solid and liquid droplets. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 1213. | 1.7 | 18 |
| 96 | Interpretation of ultrasound velocity creaming profiles. Ultrasonics, 1996, 34, 695-698. | 3.9 | 16 |
| 97 | The application of modified forms of the Urick equation to the interpretation of ultrasound velocity in scattering systems. Ultrasonics, 1995, 33, 243-251. | 3.9 | 37 |
| 98 | Modeling of Concentration Profiles and Ultrasound Velocity Profiles in a Creaming Emulsion: Importance of Scattering Effects. Journal of Colloid and Interface Science, 1994, 166, 363-374. | 9.4 | 31 |
| 99 | Ultrasonic evaluation of ripening avocado flesh. Postharvest Biology and Technology, 1994, 4, 111-116. | 6.0 | 17 |
| 100 | The effect of lauric-based molecules on trilaurin crystallization. JAOCS, Journal of the American Oil Chemists' Society, 1994, 71, 1367-1372. | 1.9 | 43 |
| 101 | Creaming of concentrated oil-in-water emulsions containing xanthan. Food Hydrocolloids, 1994, 8, 481-497. | 10.7 | 81 |
| 102 | Effect of Emulsifier Type on the Crystallization Kinetics of Oil-in-Water Emulsions Containing a Mixture of Solid and Liquid Droplets. Journal of Colloid and Interface Science, 1993, 160, 293-297. | 9.4 | 89 |
| 103 | Absorption and velocity dispersion due to crystallization and melting of emulsion droplets. Ultrasonics, 1993, 31, 433-437. | 3.9 | 49 |
| 104 | Crystallization in oil-in-water emulsions containing liquid and solid droplets. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1993, 81, 273-279. | 4.7 | 44 |
| 105 | Neutron diffraction studies of liquid and crystalline trilaurin. JAOCS, Journal of the American Oil Chemists' Society, 1992, 69, 130-136. | 1.9 | 72 |
| 106 | Ultrasonic analysis of edible fats and oils. Ultrasonics, 1992, 30, 383-388. | 3.9 | 85 |
| 107 | Ultrasonic investigation of aqueous solutions of a globular protein. Food Hydrocolloids, 1992, 6, 253-262. | 10.7 | 39 |
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| 109 | Ultrasonic investigation of the particle size dependence of crystallization in n-hexadecane-in-water emulsions. Journal of Colloid and Interface Science, 1991, 142, 103-110. | 9.4 | 79 |
| 110 | ULTRASONIC MONITORING OF MELTING/CRYSTALLIZATION IN EMULSIONS., 1991,, 107-110. | | 5 |
| 111 | Monitoring Crystallization in Simple and Mixed Oil-in-Water Emulsions using Ultrasonic Velocity Measurement., 1991,, 171-179. | | 7 |
| 112 | Small angle neutron scattering from voids in crystalline trilaurin. JAOCS, Journal of the American Oil Chemists' Society, 1990, 67, 76-78. | 1.9 | 31 |
| 113 | Crystallization in hydrocarbon-in-water emulsions containing a mixture of solid and liquid droplets. Chemical Physics Letters, 1990, 172, 449-452. | 2.6 | 53 |
| 114 | Ultrasonic characterization of a food emulsion. Ultrasonics, 1990, 28, 266-272. | 3.9 | 55 |
| 115 | Comparison of effective medium and multipleâ€scattering theories of predicting the ultrasonic properties of dispersions. Journal of the Acoustical Society of America, 1990, 87, 2244-2246. | 1.1 | 11 |
| 116 | Faraday communications. Ultrasonic monitoring of crystallization in an oil-in-water emulsion. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 1147. | 1.7 | 37 |
| 117 | Ultrasonic temperature measurement and its potential for food processing systems. Food Control, 1990, 1, 54-57. | 5.5 | 12 |
| 118 | Ultrasonics in food engineering Part II: Applications. Journal of Food Engineering, 1989, 9, 1-20. | 5.2 | 85 |
| 119 | Scattering of ultrasound by emulsions. Journal Physics D: Applied Physics, 1989, 22, 38-47. | 2.8 | 158 |
| 120 | Ultrasonics in food engineering. Part I: Introduction and experimental methods. Journal of Food Engineering, 1988, 8, 217-245. | 5.2 | 128 |
| 121 | Ultrasonic velocity measurements in some liquid triglycerides and vegetable oils. JAOCS, Journal of the American Oil Chemists' Society, 1988, 65, 1787-1790. | 1.9 | 34 |
| 122 | Investigation of phase transitions in glyceride/paraffin oil mixtures using ultrasonic velocity measurements. JAOCS, Journal of the American Oil Chemists' Society, 1988, 65, 1791-1795. | 1.9 | 22 |
| 123 | Ultrasonic velocity as a probe of emulsions and suspensions. Advances in Colloid and Interface Science, 1987, 27, 285-316. | 14.7 | 55 |
| 124 | Acoustics and ultrasonics in emulsions and dispersions. Ultrasonics, 1987, 25, 119. | 3.9 | 0 |
| 125 | A microprocessor control system for thermal sterilisation operations. Journal of Food Engineering, 1986, 5, 31-53. | 5.2 | 15 |
| 126 | A study of dilatation and acoustic propagation in solidifying fats and oils: I. Theoretical. JAOCS, Journal of the American Oil Chemists' Society, 1984, 61, 558-559. | 1.9 | 7 |

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| 127 | A study of dilatation and acoustic propagation in solidifying fats and oils: II. Experimental. JAOCS, Journal of the American Oil Chemists' Society, 1984, 61, 560-564. | 1.9 | 21 |
| 128 | Ultrasonic absorption in a polystyrene latex. Journal of Colloid and Interface Science, 1983, 93, 565-567. | 9.4 | 6 |
| 129 | Evidence for the osmotic dehydration theory of freeze damage. Journal of the Science of Food and Agriculture, 1981, 32, 96-98. | 3.5 | 3 |
| 130 | An application of the ultrasonic pulse echo technique to the measurement of crispness of biscuits. International Journal of Food Science and Technology, 1981, 16, 167-175. | 2.7 | 28 |
| 131 | Application of ultrasonic pulseâ€echo techniques to egg albumen quality testing: A preliminary report. British Poultry Science, 1980, 21, 489-495. | 1.7 | 28 |
| 132 | Electromagnetic generation and attenuation of ultrasound in ferromagnetic metals. II. Journal of Physics F: Metal Physics, 1980, 10, 2555-2572. | 1.6 | 2 |
| 133 | Electromagnetic generation and attenuation of ultrasound in ferromagnetic metals. I. Journal of Physics F: Metal Physics, 1980, 10, 2041-2053. | 1.6 | 6 |
| 134 | A calculation of the pressure dependence of the low-temperature transport properties of dilute KRb alloys. Journal of Physics F: Metal Physics, 1978, 8, 231-238. | 1.6 | 6 |
| 135 | Ferromagnetic acoustic resonance in metals. Journal of Physics F: Metal Physics, 1973, 3, L234-L237. | 1.6 | 6 |
| 136 | Chapter 27. Crystallization in Monodisperse Emulsions with Particles in Size Range 20–200 nm. , 0, , 399-412. | | 4 |
| 137 | Crystallization in food emulsions. , 0, , 152-162. | | 1 |