Valerie J Pinfield

List of Publications by Year
in descending order

47	920	516561 16	477173 29
papers	citations	h-index	g-index

50	50	50	656
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of synthetic surfactants on the environment and the potential for substitution by biosurfactants. Advances in Colloid and Interface Science, 2021, 288, 102340.	7.0	151
2	Towards the digitalisation of porous energy materials: evolution of digital approaches for microstructural design. Energy and Environmental Science, 2021, 14, 2549-2576.	15.6	34
3	Investigation of Agglomeration in the Presence of Oiling Out in the Antisolvent Crystallization Process. Industrial & Engineering Chemistry Research, 2021, 60, 4110-4119.	1.8	18
4	Scattering coefficients for a sphere in a visco-acoustic medium for arbitrary partial wave order. Wave Motion, 2020, 97, 102589.	1.0	1
5	Effective dynamic properties of random complex media with spherical particles. Journal of the Acoustical Society of America, 2019, 145, 3727-3740.	0.5	3
6	Modelling viscous boundary layer dissipation effects in liquid surrounding individual solid nano and micro-particles in an ultrasonic field. Scientific Reports, 2019, 9, 4956.	1.6	2
7	The absorption of ultrasound in emulsions: computational modelling of thermal effects. Scientific Reports, 2018, 8, 12486.	1.6	3
8	Multiple scattering in random dispersions of spherical scatterers: Effects of shear-acoustic interactions. Journal of the Acoustical Society of America, 2017, 141, 649-660.	0.5	16
9	Characterisation of colloidal dispersions using ultrasound spectroscopy and multiple-scattering theory inclusive of shear-wave effects. Chemical Engineering Research and Design, 2016, 114, 69-78.	2.7	16
10	Acoustic characterization of void distributions across carbon-fiber composite layers. AIP Conference Proceedings, 2016, , .	0.3	3
11	Experimental verification of nanofluid shear-wave reconversion in ultrasonic fields. Nanoscale, 2016, 8, 5497-5506.	2.8	39
12	Rate of shear of an ultrasonic oscillating rod viscosity probe. Ultrasonics, 2016, 65, 18-22.	2.1	3
13	Ultrasound Propagation in Concentrated Suspensions: Shear-mediated Contributions to Multiple Scattering. Physics Procedia, 2015, 70, 213-216.	1.2	5
14	Shear-mediated contributions to the effective properties of soft acoustic metamaterials including negative index. Scientific Reports, 2015, 5, 18562.	1.6	10
15	13th Angloâ€French Physical Acoustics Conference (AFPAC2014). Journal of Physics: Conference Series, 2015, 581, 011001.	0.3	0
16	Comparison of numerical and effective-medium modeling of porosity in layered media. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1086-1094.	1.7	3
17	Thermo-elastic multiple scattering in random dispersions of spherical scatterers. Journal of the Acoustical Society of America, 2014, 136, 3008-3017.	0.5	8
18	Advances in ultrasonic monitoring of oil-in-water emulsions. Food Hydrocolloids, 2014, 42, 48-55.	5.6	12

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19	Ultrasonic wave propagation in concentrated slurries â€“ The modelling problem. Ultrasonics, 2014, 54, 1737-1744.	2.1	26
20	Numerical and analytical investigation of the influence of porosity on the frequency response of GLARE composite. , 2014, , .		0
21	Anomalous Small Angle X-Ray Scattering Simulations: Proof of Concept for Distance Measurements for Nanoparticle-Labelled Biomacromolecules in Solution. PLoS ONE, 2014, 9, e95664.	1.1	10
22	Simulation of ultrasonic array imaging of composite materials with defects. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1935-1948.	1.7	26
23	Modelling ultrasonic array signals in multilayer anisotropic materials using the angular spectrum decomposition of plane wave responses. Journal of Physics: Conference Series, 2013, 457, 012005.	0.3	1
24	Emergence of the coherent reflected field for a single realisation of spherical scatterer locations in a solid matrix. Journal of Physics: Conference Series, 2013, 457, 012009.	0.3	2
25	Simulation of incoherent and coherent backscattered wave fields from cavities in a solid matrix. Journal of the Acoustical Society of America, 2012, 132, 3760-3769.	0.5	6
26	The torsional waveguide viscosity probe: Design and anomalous behavior. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1628-1640.	1.7	31
27	Modelling the backscatter from spherical cavities in a solid matrix: Can an effective medium layer model mimic the scattering response?. Journal of Physics: Conference Series, 2011, 269, 012016.	0.3	4
28	Investigation of bovine serum albumin denaturation using ultrasonic spectroscopy. Food Hydrocolloids, 2011, 25, 1233-1241.	5.6	23
29	A comparison of stochastic and effective medium approaches to the backscattered signal from a porous layer in a solid matrix. Journal of the Acoustical Society of America, 2011, 130, 122-134.	0.5	24
30	Acoustic scattering by a spherical obstacle: Modification to the analytical long-wavelength solution for the zero-order coefficient. Journal of the Acoustical Society of America, 2011, 129, 1851-1856.	0.5	10
31	A perturbation solution for long wavelength thermoacoustic propagation in dispersions. Journal of Computational and Applied Mathematics, 2010, 234, 1996-2002.	1.1	4
32	Ultrasonic bulk wave propagation in concentrated heterogeneous slurries.. Springer Proceedings in Physics, 2009, , 87-98.	0.1	5
33	Acoustic scattering in dispersions: Improvements in the calculation of single particle scattering coefficients. Journal of the Acoustical Society of America, 2007, 122, 205-221.	0.5	12
34	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.	1.4	47
35	A perturbation approach to acoustic scattering in dispersions. Journal of the Acoustical Society of America, 2006, 120, 719-732.	0.5	3
36	Acoustic Propagation in Dispersions in the Long Wavelength Limit. SIAM Journal on Applied Mathematics, 2005, 66, 489-509.	0.8	9

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37	Determination of Interparticle Forces by Colloidal Particle Scattering: A Simulation Study. Journal of Colloid and Interface Science, 2000, 223, 273-284.	5.0	12
38	Neutron Reflectivity Study of Competitive Adsorption of beta;-Lactoglobulin and Nonionic Surfactant at the Airâ€“Water Interface. International Dairy Journal, 1998, 8, 73-77.	1.5	49
39	Reply to Comment on â€œDistribution of Temperature in Globular Molecules, Cells, or Droplets in Temperature-Jump, Sound Velocity, and Pulsed LASER Experimentsâ€• Journal of Physical Chemistry B, 1998, 102, 7510-7510.	1.2	3
40	Self-consistent-field modelling of casein adsorption Comparison of results for Î±s1-casein and Î²-casein. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 425-432.	1.7	51
41	Thermal Scattering Must Be Accounted for in the Determination of Adiabatic Compressibility. Journal of Physical Chemistry B, 1997, 101, 1110-1112.	1.2	28
42	Self-consistent-field modelling of adsorbed casein Interaction between two protein-coated surfaces. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 1785-1790.	1.7	78
43	Modeling of Combined Creaming and Flocculation in Emulsions. Journal of Colloid and Interface Science, 1997, 186, 80-89.	5.0	30
44	On the â€œAnomalousâ€•Adsorption Behavior of Phosvitin. Journal of Colloid and Interface Science, 1997, 187, 539-541.	5.0	13
45	Interpretation of ultrasound velocity creaming profiles. Ultrasonics, 1996, 34, 695-698.	2.1	16
46	The application of modified forms of the Urick equation to the interpretation of ultrasound velocity in scattering systems. Ultrasonics, 1995, 33, 243-251.	2.1	37
47	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.	5.0	31