

# Valerie J Pinfield

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

920  
citations

516561

16  
h-index

477173

29  
g-index

50  
all docs

50  
docs citations

50  
times ranked

656  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of synthetic surfactants on the environment and the potential for substitution by biosurfactants. <i>Advances in Colloid and Interface Science</i> , 2021, 288, 102340.	7.0	151
2	Self-consistent-field modelling of adsorbed casein Interaction between two protein-coated surfaces. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 1785-1790.	1.7	78
3	Self-consistent-field modelling of casein adsorption Comparison of results for $\hat{I}^{\pm 1}$ -casein and $\hat{I}^2$ -casein. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 425-432.	1.7	51
4	Neutron Reflectivity Study of Competitive Adsorption of beta;-Lactoglobulin and Nonionic Surfactant at the Air-Water Interface. <i>International Dairy Journal</i> , 1998, 8, 73-77.	1.5	49
5	A comparative study of ultrasound and laser light diffraction techniques for particle size determination in dairy beverages. <i>Measurement Science and Technology</i> , 2006, 17, 289-297.	1.4	47
6	Experimental verification of nanofluid shear-wave reconversion in ultrasonic fields. <i>Nanoscale</i> , 2016, 8, 5497-5506.	2.8	39
7	The application of modified forms of the Urick equation to the interpretation of ultrasound velocity in scattering systems. <i>Ultrasonics</i> , 1995, 33, 243-251.	2.1	37
8	Towards the digitalisation of porous energy materials: evolution of digital approaches for microstructural design. <i>Energy and Environmental Science</i> , 2021, 14, 2549-2576.	15.6	34
9	Modeling of Concentration Profiles and Ultrasound Velocity Profiles in a Creaming Emulsion: Importance of Scattering Effects. <i>Journal of Colloid and Interface Science</i> , 1994, 166, 363-374.	5.0	31
10	The torsional waveguide viscosity probe: Design and anomalous behavior. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 1628-1640.	1.7	31
11	Modeling of Combined Creaming and Flocculation in Emulsions. <i>Journal of Colloid and Interface Science</i> , 1997, 186, 80-89.	5.0	30
12	Thermal Scattering Must Be Accounted for in the Determination of Adiabatic Compressibility. <i>Journal of Physical Chemistry B</i> , 1997, 101, 1110-1112.	1.2	28
13	Simulation of ultrasonic array imaging of composite materials with defects. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013, 60, 1935-1948.	1.7	26
14	Ultrasonic wave propagation in concentrated slurries – The modelling problem. <i>Ultrasonics</i> , 2014, 54, 1737-1744.	2.1	26
15	A comparison of stochastic and effective medium approaches to the backscattered signal from a porous layer in a solid matrix. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 122-134.	0.5	24
16	Investigation of bovine serum albumin denaturation using ultrasonic spectroscopy. <i>Food Hydrocolloids</i> , 2011, 25, 1233-1241.	5.6	23
17	Investigation of Agglomeration in the Presence of Oiling Out in the Antisolvent Crystallization Process. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 4110-4119.	1.8	18
18	Interpretation of ultrasound velocity creaming profiles. <i>Ultrasonics</i> , 1996, 34, 695-698.	2.1	16

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19	Characterisation of colloidal dispersions using ultrasound spectroscopy and multiple-scattering theory inclusive of shear-wave effects. <i>Chemical Engineering Research and Design</i> , 2016, 114, 69-78.	2.7	16
20	Multiple scattering in random dispersions of spherical scatterers: Effects of shear-acoustic interactions. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 649-660.	0.5	16
21	On the "Anomalous" Adsorption Behavior of Phosvitin. <i>Journal of Colloid and Interface Science</i> , 1997, 187, 539-541.	5.0	13
22	Determination of Interparticle Forces by Colloidal Particle Scattering: A Simulation Study. <i>Journal of Colloid and Interface Science</i> , 2000, 223, 273-284.	5.0	12
23	Acoustic scattering in dispersions: Improvements in the calculation of single particle scattering coefficients. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 205-221.	0.5	12
24	Advances in ultrasonic monitoring of oil-in-water emulsions. <i>Food Hydrocolloids</i> , 2014, 42, 48-55.	5.6	12
25	Acoustic scattering by a spherical obstacle: Modification to the analytical long-wavelength solution for the zero-order coefficient. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 1851-1856.	0.5	10
26	Shear-mediated contributions to the effective properties of soft acoustic metamaterials including negative index. <i>Scientific Reports</i> , 2015, 5, 18562.	1.6	10
27	Anomalous Small Angle X-Ray Scattering Simulations: Proof of Concept for Distance Measurements for Nanoparticle-Labelled Biomacromolecules in Solution. <i>PLoS ONE</i> , 2014, 9, e95664.	1.1	10
28	Acoustic Propagation in Dispersions in the Long Wavelength Limit. <i>SIAM Journal on Applied Mathematics</i> , 2005, 66, 489-509.	0.8	9
29	Thermo-elastic multiple scattering in random dispersions of spherical scatterers. <i>Journal of the Acoustical Society of America</i> , 2014, 136, 3008-3017.	0.5	8
30	Simulation of incoherent and coherent backscattered wave fields from cavities in a solid matrix. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 3760-3769.	0.5	6
31	Ultrasound Propagation in Concentrated Suspensions: Shear-mediated Contributions to Multiple Scattering. <i>Physics Procedia</i> , 2015, 70, 213-216.	1.2	5
32	Ultrasonic bulk wave propagation in concentrated heterogeneous slurries.. <i>Springer Proceedings in Physics</i> , 2009, , 87-98.	0.1	5
33	A perturbation solution for long wavelength thermoacoustic propagation in dispersions. <i>Journal of Computational and Applied Mathematics</i> , 2010, 234, 1996-2002.	1.1	4
34	Modelling the backscatter from spherical cavities in a solid matrix: Can an effective medium layer model mimic the scattering response?. <i>Journal of Physics: Conference Series</i> , 2011, 269, 012016.	0.3	4
35	Reply to Comment on "Distribution of Temperature in Globular Molecules, Cells, or Droplets in Temperature-Jump, Sound Velocity, and Pulsed LASER Experiments". <i>Journal of Physical Chemistry B</i> , 1998, 102, 7510-7510.	1.2	3
36	A perturbation approach to acoustic scattering in dispersions. <i>Journal of the Acoustical Society of America</i> , 2006, 120, 719-732.	0.5	3

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37	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
38	Acoustic characterization of void distributions across carbon-fiber composite layers. AIP Conference Proceedings, 2016, , .	0.3	3
39	Rate of shear of an ultrasonic oscillating rod viscosity probe. Ultrasonics, 2016, 65, 18-22.	2.1	3
40	The absorption of ultrasound in emulsions: computational modelling of thermal effects. Scientific Reports, 2018, 8, 12486.	1.6	3
41	Effective dynamic properties of random complex media with spherical particles. Journal of the Acoustical Society of America, 2019, 145, 3727-3740.	0.5	3
42	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
43	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
44	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
45	Scattering coefficients for a sphere in a visco-acoustic medium for arbitrary partial wave order. Wave Motion, 2020, 97, 102589.	1.0	1
46	Numerical and analytical investigation of the influence of porosity on the frequency response of GLARE composite. , 2014, , .		0
47	13th Anglo-French Physical Acoustics Conference (AFPAC2014). Journal of Physics: Conference Series, 2015, 581, 011001.	0.3	0