

Dalton Harvie

List of Publications by Year in descending order

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55
papers

1,637
citations

257101

24
h-index

288905

40
g-index

56
all docs

56
docs citations

56
times ranked

1436
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Volume of Fluid Advection Algorithm: The Stream Scheme. <i>Journal of Computational Physics</i> , 2000, 162, 1-32.	1.9	150
2	An analysis of parasitic current generation in Volume of Fluid simulations. <i>Applied Mathematical Modelling</i> , 2006, 30, 1056-1066.	2.2	146
3	What is important in the simulation of spray dryer performance and how do current CFD models perform?. <i>Applied Mathematical Modelling</i> , 2006, 30, 1281-1292.	2.2	102
4	A new volume of fluid advection algorithm: the defined donating region scheme. <i>International Journal for Numerical Methods in Fluids</i> , 2001, 35, 151-172.	0.9	90
5	A hydrodynamic and thermodynamic simulation of droplet impacts on hot surfaces, Part I: theoretical model. <i>International Journal of Heat and Mass Transfer</i> , 2001, 44, 2633-2642.	2.5	70
6	Mechanisms of flux decline in skim milk ultrafiltration: A review. <i>Journal of Membrane Science</i> , 2017, 523, 144-162.	4.1	64
7	A hydrodynamic and thermodynamic simulation of droplet impacts on hot surfaces, Part II: validation and applications. <i>International Journal of Heat and Mass Transfer</i> , 2001, 44, 2643-2659.	2.5	61
8	Electroviscous effects in steady fully developed flow of a power-law liquid through a cylindrical microchannel. <i>International Journal of Heat and Fluid Flow</i> , 2009, 30, 804-811.	1.1	54
9	A Computational Fluid Dynamics Study of a Tall-Form Spray Dryer. <i>Food and Bioproducts Processing</i> , 2002, 80, 163-175.	1.8	43
10	Deformation of a viscoelastic droplet passing through a microfluidic contraction. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008, 155, 67-79.	1.0	43
11	A parametric study of droplet deformation through a microfluidic contraction: Low viscosity Newtonian droplets. <i>Chemical Engineering Science</i> , 2006, 61, 5149-5158.	1.9	41
12	Extraction kinetics of Fe(III) by di-(2-ethylhexyl) phosphoric acid using a Y shaped microfluidic device. <i>Chemical Engineering Research and Design</i> , 2014, 92, 571-580.	2.7	40
13	A Computational Fluid Dynamic Model of Fire Burning Rate and Extinction by Water Sprinkler. <i>Combustion Science and Technology</i> , 1997, 123, 227-245.	1.2	38
14	Contact angle effects on microdroplet deformation using CFD. <i>Applied Mathematical Modelling</i> , 2006, 30, 1033-1042.	2.2	38
15	Electrokinetics of the silica and aqueous electrolyte solution interface: Viscoelectric effects. <i>Advances in Colloid and Interface Science</i> , 2016, 234, 108-131.	7.0	38
16	Electrokinetics of isolated electrified drops. <i>Soft Matter</i> , 2016, 12, 3310-3325.	1.2	37
17	Electroviscous effects in low Reynolds number liquid flow through a slit-like microfluidic contraction. <i>Chemical Engineering Science</i> , 2007, 62, 4229-4240.	1.9	36
18	Numerical Simulations of Gas Flow Patterns Within a Tall-Form Spray Dryer. <i>Chemical Engineering Research and Design</i> , 2001, 79, 235-248.	2.7	34

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19	Modelling of interfacial mass transfer in microfluidic solvent extraction: part I. Heterogenous transport. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 197-212.	1.0	31
20	Modelling of interfacial mass transfer in microfluidic solvent extraction: part II. Heterogeneous transport with chemical reaction. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 213-224.	1.0	31
21	Concentration gradient focusing and separation in a silica nanofluidic channel with a non-uniform electroosmotic flow. <i>Lab on A Chip</i> , 2014, 14, 3539-3549.	3.1	30
22	Viscoelectric Effects in Nanochannel Electrokinetics. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20517-20523.	1.5	28
23	Ultrapерmeable Composite Membranes Enhanced Via Doping with Amorphous MOF Nanosheets. <i>ACS Central Science</i> , 2021, 7, 671-680.	5.3	27
24	Steady flow of ionic liquid through a cylindrical microfluidic contraction–expansion pipe: Electroviscous effects and pressure drop. <i>Chemical Engineering Science</i> , 2008, 63, 3593-3604.	1.9	26
25	A parametric study of droplet deformation through a microfluidic contraction: Shear thinning liquids. <i>International Journal of Multiphase Flow</i> , 2007, 33, 545-556.	1.6	25
26	Estimation of anisotropic permeability in trabecular bone based on microCT imaging and pore-scale fluid dynamics simulations. <i>Bone Reports</i> , 2017, 6, 129-139.	0.2	25
27	A Simple Kinetic Theory Treatment of Volatile Liquid-Gas Interfaces. <i>Journal of Heat Transfer</i> , 2001, 123, 486-491.	1.2	24
28	Electroviscous effects in a Carreau liquid flowing through a cylindrical microfluidic contraction. <i>Chemical Engineering Science</i> , 2010, 65, 6259-6269.	1.9	24
29	A multiphase electrokinetic flow model for electrolytes with liquid/liquid interfaces. <i>Journal of Computational Physics</i> , 2013, 251, 209-222.	1.9	24
30	A Simple, Scalable Process for the Production of Porous Polymer Microspheres by Inkjetting Combined with Thermally Induced Phase Separation. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 685-698.	1.2	22
31	Stationary Chemical Gradients for Concentration Gradient-Based Separation and Focusing in Nanofluidic Channels. <i>Langmuir</i> , 2014, 30, 5337-5348.	1.6	22
32	Electrolytic drops in an electric field: A numerical study of drop deformation and breakup. <i>Physical Review E</i> , 2015, 92, 013007.	0.8	21
33	Electrophoretically mediated partial coalescence of a charged microdrop. <i>Chemical Engineering Science</i> , 2017, 169, 273-283.	1.9	17
34	Microfluidic circuit analysis I: Ion current relationships for thin slits and pipes. <i>Journal of Colloid and Interface Science</i> , 2012, 365, 1-15.	5.0	16
35	Effect of surfactants on single bubble sonoluminescence behavior and bubble surface stability. <i>Physical Review E</i> , 2014, 89, 043007.	0.8	15
36	Isoelectric Focusing in a Silica Nanofluidic Channel: Effects of Electromigration and Electroosmosis. <i>Analytical Chemistry</i> , 2014, 86, 8711-8718.	3.2	15

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37	Lift and drag forces acting on a particle moving with zero slip in a linear shear flow near a wall. <i>Journal of Fluid Mechanics</i> , 2020, 904, .	1.4	14
38	Microfluidic circuit analysis II: Implications of ion conservation for microchannels connected in series. <i>Journal of Colloid and Interface Science</i> , 2012, 365, 16-27.	5.0	10
39	Lift and drag forces acting on a particle moving in the presence of slip and shear near a wall. <i>Journal of Fluid Mechanics</i> , 2021, 915, .	1.4	10
40	Effect of wall permittivity on electroviscous flow through a contraction. <i>Biomicrofluidics</i> , 2011, 5, 044102.	1.2	8
41	Electrokinetic flow in parallel channels: Circuit modelling for microfluidics and membranes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 440, 63-73.	2.3	8
42	Numerical calculation of permeability of periodic porous materials: Application to periodic arrays of spheres and 3D scaffold microstructures. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 118, 783-803.	1.5	8
43	Electrokinetic flow in connected channels: a comparison of two circuit models. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 481-490.	1.0	7
44	Simulating the ultrafiltration of whey proteins isolate using a mixture model. <i>Journal of Membrane Science</i> , 2020, 613, 118388.	4.1	7
45	Numerical simulation of two-fluid flow of electrolyte solution with charged deforming interfaces. <i>Applied Mathematical Modelling</i> , 2016, 40, 1989-2001.	2.2	4
46	Electrokinetic development length of electroviscous flow through a contraction. <i>ANZIAM Journal</i> , 0, 52, 837.	0.0	4
47	Parasitic current generation in Combined Level Set and Volume of Fluid immiscible fluid simulations. <i>ANZIAM Journal</i> , 0, 48, 868.	0.0	3
48	Electroviscous flow through nanofluidic junctions. <i>Applied Mathematical Modelling</i> , 2014, 38, 4215-4225.	2.2	2
49	Numerical simulation of the deformation of charged drops of electrolyte. <i>WIT Transactions on Engineering Sciences</i> , 2014, , .	0.0	2
50	Shear Induced Interactions Cause Polymer Compression. <i>Scientific Reports</i> , 2020, 10, 5531.	1.6	1
51	Simulations of viscoelastic droplet deformation through a microfluidic contraction. <i>WIT Transactions on Engineering Sciences</i> , 2006, , .	0.0	1
52	Fully Developed Flow of Power-Law Fluid Through a Cylindrical Microfluidic Pipe: Pressure Drop and Electroviscous Effects. , 2008, , .		0
53	Electroviscous resistance of nanofluidic bends. <i>Physical Review E</i> , 2014, 90, 043008.	0.8	0
54	Porous Microspheres: A Simple, Scalable Process for the Production of Porous Polymer Microspheres by Ink-Jetting Combined with Thermally Induced Phase Separation (Part. Part. Syst. Charact. 6/2014). <i>Particle and Particle Systems Characterization</i> , 2014, 31, 614-614.	1.2	0

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55	Modeling Thrombin Generation in Plasma under Diffusion and Flow. Biophysical Journal, 2020, 119, 162-181.	0.2	0