

# James M Buick

## List of Publications by Year in descending order

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Version: 2024-02-01

18  
papers

476  
citations

1039406

9  
h-index

996533

15  
g-index

18  
all docs

18  
docs citations

18  
times ranked

559  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Analysis of the Casson and Carreau-Yasuda non-Newtonian blood models in steady and oscillatory flows using the lattice Boltzmann method. <i>Physics of Fluids</i> , 2007, 19, .                      | 1.6 | 264       |
| 2  | Numerical simulation of particle motion in an ultrasound field using the lattice Boltzmann model. <i>Ultrasonics</i> , 2004, 43, 21-25.  | 2.1 | 35        |
| 3  | Investigation of non-linear acoustic losses at the open end of a tube. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 1261-1272.   | 0.5 | 32        |
| 4  | Lattice Boltzmann simulation of power-law fluid flow in the mixing section of a single-screw extruder. <i>Chemical Engineering Science</i> , 2009, 64, 52-58.  | 1.9 | 27        |
| 5  | PIV applied to Eckart streaming produced by a medical ultrasound transducer. <i>Ultrasonics</i> , 2001, 39, 461-464.   | 2.1 | 23        |
| 6  | Hybrid functional networks for oil reservoir PVT characterisation. <i>Expert Systems With Applications</i> , 2017, 87, 363-369.  | 4.4 | 22        |
| 7  | Heat Exchanger Sizing for Organic Rankine Cycle. <i>Energies</i> , 2020, 13, 3615.   | 1.6 | 14        |
| 8  | Ensemble SVM for characterisation of crude oil viscosity. <i>Journal of Petroleum Exploration and Production</i> , 2018, 8, 531-546.   | 1.2 | 12        |
| 9  | Gravity-capillary internal wave simulation using a binary fluid lattice Boltzmann model. <i>Applied Mathematical Modelling</i> , 2004, 28, 183-195.  | 2.2 | 11        |
| 10 | Numerical simulation of the flow field in the mixing section of a screw extruder by the lattice Boltzmann model. <i>Chemical Engineering Science</i> , 2006, 61, 3323-3326.                          | 1.9 | 10        |
| 11 | CFD Modelling of a Centrifugal Compressor with Experimental Validation through Radial Diffuser Static Pressure Measurement. <i>International Journal of Rotating Machinery</i> , 2019, 2019, 1-12.   | 0.8 | 9         |
| 12 | Comparison of a lattice Boltzmann simulation of steep internal waves and laboratory measurements using particle image velocimetry. <i>European Journal of Mechanics, B/Fluids</i> , 2003, 22, 27-38. | 1.2 | 5         |
| 13 | Effect of stenosis growth on blood flow at the bifurcation of the carotid artery. <i>Journal of Computational Science</i> , 2021, 54, 101435.  | 1.5 | 5         |
| 14 | Investigation of hemodynamic markers for stenosis development. <i>Engineering Reports</i> , 2021, 3, e12389.   | 0.9 | 3         |
| 15 | Oil PVT characterisation using ensemble systems. , 2016, , .   |     | 2         |
| 16 | A 1D mean line model for centrifugal compressors with variable inlet guide vanes. <i>Engineering Reports</i> , 2019, 1, e12027.  | 0.9 | 2         |
| 17 | Hybrid functional networks for PVT characterisation. , 2017, , .   |     | 0         |
| 18 | Investigation of Working Fluid Performance through a Centrifugal Compression System. <i>Applied Mechanics</i> , 2022, 3, 815-829.  | 0.7 | 0         |