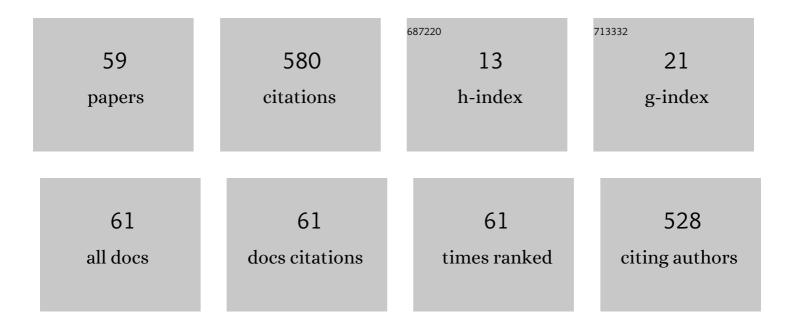
## David Newport

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A review of optical interferometry techniques for VOC detection. Sensors and Actuators A: Physical, 2020, 302, 111782.	2.0	53
2	Gas Detection Using Portable Deep-UV Absorption Spectrophotometry: A Review. Sensors, 2019, 19, 5210.	2.1	43
3	Natural convection experiments on a heated horizontal cylinder in a differentially heated square cavity. Experimental Thermal and Fluid Science, 2013, 44, 199-208.	1.5	37
4	Micro photoionization detectors. Sensors and Actuators B: Chemical, 2019, 287, 86-94.	4.0	36
5	Regional mechanical and biochemical properties of the porcine cortical meninges. Acta Biomaterialia, 2018, 80, 237-246.	4.1	31
6	Utilising μ-PIV and pressure measurements to determine the viscosity of a DNA solution in a microchannel. Experimental Thermal and Fluid Science, 2006, 30, 843-852.	1.5	28
7	Digital interferometry: techniques and trends for fluid measurement. Heat and Mass Transfer, 2008, 44, 535-546.	1.2	25
8	The in vitro inertial positions and viability of cells in suspension under different in vivo flow conditions. Scientific Reports, 2020, 10, 1711.	1.6	24
9	DEVELOPMENT OF INTERFEROMETRIC TEMPERATURE MEASUREMENT PROCEDURES FOR MICROFLUID FLOW. Microscale Thermophysical Engineering, 2004, 8, 141-154.	1.2	18
10	Sperm selection by rheotaxis improves sperm quality and early embryo development. Reproduction, 2021, 161, 343-352.	1.1	17
11	Mixed convection cooling of horizontally mounted printed circuit board. IEEE Transactions on Components and Packaging Technologies, 2003, 26, 126-133.	1.4	16
12	Development of a Toluene Detector Based on Deep UV Absorption Spectrophotometry Using Glass and Aluminum Capillary Tube Gas Cells with a LED Source. Micromachines, 2019, 10, 193.	1.4	16
13	On the Thermal Interaction Between an Isothermal Cylinder and Its Isothermal Enclosure for Cylinder Rayleigh Numbers of Order 104. Journal of Heat Transfer, 2001, 123, 1052-1061.	1.2	15
14	Development and validation of a compact thermal model for an aircraft compartment. Applied Thermal Engineering, 2013, 61, 65-74.	3.0	15
15	Micro Milled Microfluidic Photoionization Detector for Volatile Organic Compounds. Micromachines, 2019, 10, 228.	1.4	15
16	Optimising the locations of thermally sensitive equipment in an aircraft crown compartment. Aerospace Science and Technology, 2013, 28, 391-400.	2.5	13
17	Hyperactivated stallion spermatozoa fail to exhibit a rheotaxis-like behaviour, unlike other species. Scientific Reports, 2018, 8, 16897.	1.6	13
18	An optical counting technique with vertical hydrodynamic focusing for biological cells. Biomicrofluidics, 2010, 4, 024110.	1.2	12

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19	Characterization of a modular microfluidic photoionization detector. Sensors and Actuators B: Chemical, 2020, 324, 128667.	4.0	11
20	Full field measurement at the micro-scale using micro-interferometry. Microfluidics and Nanofluidics, 2008, 5, 77-87.	1.0	10
21	Experimental and numerical analysis of thermally dissipating equipment in an aircraft confined compartment. Applied Thermal Engineering, 2014, 73, 869-878.	3.0	10
22	Low-volume PEEK gas cell for BTEX detection using portable deep-UV absorption spectrophotometry. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 243, 118727.	2.0	10
23	Development of Compact Thermal–Fluid Models at the Electronic Equipment Level. Journal of Thermal Science and Engineering Applications, 2012, 4, .	0.8	9
24	Ventilation and internal structure effects on naturally induced flows in a static aircraft wing. Applied Thermal Engineering, 2012, 32, 49-58.	3.0	9
25	Gradients in the in vivo intestinal stem cell compartment and their in vitro recapitulation in mimetic platforms. Cytokine and Growth Factor Reviews, 2021, 60, 76-88.	3.2	9
26	The mechanical responses of advecting cells in confined flow. Biomicrofluidics, 2020, 14, 031501.	1.2	8
27	Liquid Diffusion Measurement in Micro/Mini Channels From Full-Field Digital Phase Measurement Interferometry (PMI). , 2004, , 429.		7
28	The influence of cell elastic modulus on inertial positions in Poiseuille microflows. Biophysical Journal, 2021, 120, 855-865.	0.2	7
29	Review of Experimental Modelling in Vascular Access for Hemodialysis. Cardiovascular Engineering and Technology, 2017, 8, 330-341.	0.7	7
30	Towards the prediction of flow-induced shear stress distributions experienced by breast cancer cells in the lymphatics. Biomechanics and Modeling in Mechanobiology, 2017, 16, 2051-2062.	1.4	6
31	Arduino control of a pulsatile flow rig. Medical Engineering and Physics, 2018, 51, 67-71.	0.8	6
32	On Gaseous Free-Convection Heat Transfer With Well-Defined Boundary Conditions. Journal of Heat Transfer, 2000, 122, 661-668.	1.2	4
33	Opportunities for Studying the Hydrodynamic Context for Breast Cancer Cell Spread Through Lymph Flow. Lymphatic Research and Biology, 2017, 15, 204-219.	0.5	4
34	A Sensitive and Portable Deep-UV Absorbance Detector with a Microliter Gas Cell Compatible with Micro GC. Chemosensors, 2021, 9, 63.	1.8	4
35	A Comparison of Micro-PIV Experiments in a Mini-Channel to Numerical and Analytical Solutions. , 2003, , 903.		3
36	Full-field low-frequency heterodyne interferometry using CMOS and CCD cameras with online phase		3

processing. , 2005, 5856, 23.

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37	A Compact Modeling Approach to Enhance Collaborative Design of Thermal-Fluid Systems. Journal of Electronic Packaging, Transactions of the ASME, 2014, 136, .	1.2	3
38	A heterodyne Mach-Zehnder Interferometer employing static and dynamic phase demodulation techniques for live-cell imaging. , 2010, , .		2
39	Digital Moiré Subtraction Interferometry (DMS) for Electronics Cooling Applications in Enclosures. Journal of Electronic Packaging, Transactions of the ASME, 2010, 132, .	1.2	2
40	Thermal Performance Characteristics of Integrated Cooling Solutions Consisting of Multiple Miniature Fans. Journal of Physics: Conference Series, 2012, 395, 012029.	0.3	2
41	Transient natural convection in a conducting enclosure heated from above. Journal of Visualization, 2013, 16, 1-4.	1.1	2
42	Cell specific variation in viability in suspension in in vitro Poiseuille flow conditions. Scientific Reports, 2021, 11, 13997.	1.6	2
43	Free Convection Thermal Interaction Between 2D Components Mounted on a Vertically Oriented PCB. , 2002, , .		2
44	Development of Interferometric Temperature Measurement Procedures for Microfluid Flow. , 2003, , 809.		1
45	Measurement of Transient Natural Convection in Non-Ventilated Aircraft Compartments. , 2008, , .		1
46	Quantitative measurement of gas pressure drop along T-shaped micro channels by interferometry. Journal of Physics: Conference Series, 2012, 362, 012032.	0.3	1
47	Microfluidique pour la détection génétique de cancers. Houille Blanche, 2006, 92, 26-33.	0.3	1
48	Influence of Concentration and Number of Image Pairs in μ-PIV Experiments. , 2007, , .		1
49	Influence of Wall Compliance on the Flow Patterns in a Patient-Specific Brachio-Cephalic Arterio-Venous Fistula. Biomechanics, 2022, 2, 158-173.	0.5	1
50	Natural convection cooling of aircraft wingbox structures during turnaround period. Applied Thermal Engineering, 2022, 215, 118844.	3.0	1
51	Experimental evaluation of a patient specific Brachio-Cephalic Arterio Venous Fistula (AVF): Velocity flow conditions under steady and pulsatile waveforms. Medical Engineering and Physics, 2022, 106, 103834.	0.8	1
52	Thermally Induced Flow Structures in Aircraft Wing Compartments. , 2008, , .		0
53	Development of Compact Thermal-Fluid Models at the Electronic Equipment Level. , 2011, , .		0

54 Fabrication of Microchannels by Stereolithography for Optical Use., 2011,,.

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#	Article	IF	CITATIONS
55	Gas Mass Flow Rate Measurement in T-Shaped Microchannels in Slip Flow Regime. , 2011, , .		Ο
56	Thermal Analysis of a Micro-Polymerase Chain Reaction Device. , 2004, , .		0
57	An Analysis of Natural Convection in Leading Edge Wing Compartments. , 2008, , .		Ο
58	Development on Manufacturing Process for Integrating Glass Plates With Microchannel Walls Made by Micro Stereolithography. , 2013, , .		0
59	O-295 Passive sperm sorting does not select for sperm with lower DNA fragmentation levels compared to density gradient centrifugation in split samples. Human Reproduction, 2022, 37, .	0.4	Ο