Peter Glynne-Jones

List of Publications by Year
in descending order

65 papers	4,771 citations	172457 29 h-index	182427 51 g-index
70 all docs	70 docs citations	70 times ranked	3794 citing authors

#	Article	IF	Citations
1	Bactericidal Effect of Ultrasound-Responsive Microbubbles and Sub-inhibitory Gentamicin against Pseudomonas aeruginosa Biofilms on Substrates With Differing Acoustic Impedance. Ultrasound in Medicine and Biology, 2022, 48, 1888-1898.	1.5	7
2	Acoustofluidic phase microscopy in a tilted segmentation-free configuration. Biomicrofluidics, 2021, 15, 014102.	2.4	2
3	Acoustofluidic device for acoustic capture of Bacillus anthracis spore analogues at low concentration. Journal of the Acoustical Society of America, 2021, 149, 4228-4238.	1.1	3
4	Acoustic focussing for sedimentation-free high-throughput imaging of microalgae. Journal of Applied Phycology, 2020, 32, 339-347.	2.8	3
5	Ultrasoundâ€mediated therapies for the treatment of biofilms in chronic wounds: a review of present knowledge. Microbial Biotechnology, 2020, 13, 613-628.	4.2	53
6	Real-time monitoring of live mycobacteria with a microfluidic acoustic-Raman platform. Communications Biology, 2020, 3, 236.	4.4	24
7	Engineering multi-layered tissue constructs using acoustic levitation. Scientific Reports, 2019, 9, 9789.	3.3	28
8	Acoustofluidic particle steering. Journal of the Acoustical Society of America, 2019, 145, 945-955.	1.1	9
9	Generation of functional hepatocyte 3D discoids in an acoustofluidic bioreactor. Biomicrofluidics, 2019, 13, 014112.	2.4	5
10	Acoustically modulated biomechanical stimulation for human cartilage tissue engineering. Lab on A Chip, 2018, 18, 473-485.	6.0	33
11	Effects of micron scale surface profiles on acoustic streaming. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	21
12	Comparing methods for the modelling of boundary-driven streaming in acoustofluidic devices. Microfluidics and Nanofluidics, 2017, 21, 23.	2.2	59
13	Development of an Acoustofluidic Platform for Rapid Basophil Enrichment. Journal of Allergy and Clinical Immunology, 2017, 139, AB125.	2.9	0
14	Transducer-Plane Streaming Patterns in Thin-Layer Acoustofluidic Devices. Physical Review Applied, 2017, 8, .	3.8	16
15	Notice of Removal: A few twists regarding the momentum of shaped beams. , 2017, , .		0
16	Modal Rayleigh-like streaming in layered acoustofluidic devices. Physics of Fluids, 2016, 28, .	4.0	36
17	Time-resolved full-field imaging of ultrasonic Lamb waves using deflectometry. Experimental Mechanics, 2016, 56, 345-357.	2.0	15
18	Acoustic trapping in bubble-bounded micro-cavities. Optofluidics, Microfluidics and Nanofluidics, 2016, 3, .	0.5	0

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19	Full-Field Strain Imaging of Ultrasonic Waves in Solids. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 81-85.	0.5	0
20	High throughput imaging cytometer with acoustic focussing. RSC Advances, 2015, 5, 83206-83216.	3.6	25
21	Biocompatibility of poly(2-alkyl-2-oxazoline) brush surfaces forÂadherent lung cell lines. Biomaterials, 2015, 61, 26-32.	11.4	11
22	Acoustic Devices for Particle and Cell Manipulation and Sensing. Sensors, 2014, 14, 14806-14838.	3.8	53
23	Acoustic Manipulation Combined with Other Force Fields. , 2014, , 242-255.		0
24	Modelling and Applications of Planar Resonant Devices for Acoustic Particle Manipulation. , 2014, , 127-147.		2
25	Controlling acoustic streaming in an ultrasonic heptagonal tweezers with application to cell manipulation. Ultrasonics, 2014, 54, 268-274.	3.9	58
26	Numerical simulation of 3D boundary-driven acoustic streaming in microfluidic devices. Lab on A Chip, 2014, 14, 532-541.	6.0	78
27	Acoustic Tractor Beam. Physical Review Letters, 2014, 112, 174302.	7.8	74
28	Application of an acoustofluidic perfusion bioreactor for cartilage tissue engineering. Lab on A Chip, 2014, 14, 4475-4485.	6.0	79
29	A thin-reflector microfluidic resonator for continuous-flow concentration of microorganisms: a new approach to water quality analysis using acoustofluidics. Lab on A Chip, 2014, 14, 3830-3842.	6.0	64
30	Deformation of red blood cells using acoustic radiation forces. Biomicrofluidics, 2014, 8, 034109.	2.4	94
31	The effect of ultrasound-related stimuli on cell viability in microfluidic channels. Journal of Nanobiotechnology, 2013, 11, 20.	9.1	18
32	Mapping out tractor beams: topological angular momentum and reduced axial flux; gradient versus non-conservative forces. , 2013, , .		0
33	Acoustic streaming in the transducer plane in ultrasonic particle manipulation devices. Lab on A Chip, 2013, 13, 2133.	6.0	106
34	Acoustofluidics 23: acoustic manipulation combined with other force fields. Lab on A Chip, 2013, 13, 1003-1010.	6.0	52
35	Efficient finite element modeling of radiation forces on elastic particles of arbitrary size and geometry. Journal of the Acoustical Society of America, 2013, 133, 1885-1893.	1.1	83
36	Planar Particle Trapping and Manipulation with Ultrasonic Transducer Arrays. , 2013, , .		0

#	Article	IF	Citations
37	Controlling non-inertial cavitation microstreaming for applications in biomedical research. , 2012, , .		0
38	Efficient finite element modeling of acoustic radiation forces on inhomogeneous elastic particles. AIP Conference Proceedings, 2012, , .	0.4	5
39	The use of ultrasonic waves to minimise biofouling in oceanographic microsensors. , 2012, , .		2
40	Particle manipulation in a microfluidic channel with an electronically controlled linear piezoelectric array. , 2012, , .		2
41	Directed jetting from collapsing cavities exposed to focused ultrasound. Applied Physics Letters, 2012, 100, 024104.	3.3	17
42	Array-controlled ultrasonic manipulation of particles in planar acoustic resonator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1258-1266.	3.0	85
43	Acoustofluidics 9: Modelling and applications of planar resonant devices for acoustic particle manipulation. Lab on A Chip, 2012, 12, 1417-1426.	6.0	94
44	Contrast agent-free sonoporation: The use of an ultrasonic standing wave microfluidic system for the delivery of pharmaceutical agents. Biomicrofluidics, 2011, 5, 44108-4410815.	2.4	53
45	Manipulation of microparticles using phase-controllable ultrasonic standing waves. Journal of the Acoustical Society of America, 2010, 128, EL195-EL199.	1.1	72
46	A novel binary particle fractionation technique. Physics Procedia, 2010, 3, 277-281.	1.2	15
47	Mode-switching: A new technique for electronically varying the agglomeration position in an acoustic particle manipulator. Ultrasonics, 2010, 50, 68-75.	3.9	95
48	Multi-modal particle manipulator to enhance bead-based bioassays. Ultrasonics, 2010, 50, 235-239.	3.9	11
49	A feasibility study on using inkjet technology, micropumps, and MEMs as fuel injectors for bipropellant rocket engines. Acta Astronautica, 2010, 67, 194-203.	3.2	20
50	Trapping and micromanipulation using ultrasonic fields and dual ultrasonic/magnetic forces. Proceedings of SPIE, 2010, , .	0.8	0
51	A new 2-D model of a thin annular disk using a modified assumption. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 421-426.	3.0	1
52	Transducer arrays for ultrasonic particle manipulation. , 2010, , .		7
53	Robust acoustic particle manipulation: A thin-reflector design for moving particles to a surface. Journal of the Acoustical Society of America, 2009, 126, EL75-EL79.	1.1	33
54	A new thin-reflector mode for ultrasonic particle manipulation in layered resonators. , 2009, , .		2

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55	Flexible Acoustic Particle Manipulation Device with Integrated Optical Waveguide for Enhanced Microbead Assays. Analytical Sciences, 2009, 25, 285-291.	1.6	28
56	Self-powered autonomous wireless sensor node using vibration energy harvesting. Measurement Science and Technology, 2008, 19, 125202.	2.6	207
57	A micro electromagnetic generator for vibration energy harvesting. Journal of Micromechanics and Microengineering, 2007, 17, 1257-1265.	2.6	1,203
58	An electromagnetic, vibration-powered generator for intelligent sensor systems. Sensors and Actuators A: Physical, 2004, 110, 344-349.	4.1	644
59	An investigation of self-powered systems for condition monitoring applications. Sensors and Actuators A: Physical, 2004, 110, 171-176.	4.1	109
60	Selfâ€powered systems: a review of energy sources. Sensor Review, 2001, 21, 91-98.	1.8	87
61	Design and fabrication of a new vibration-based electromechanical power generator. Sensors and Actuators A: Physical, 2001, 92, 335-342.	4.1	372
62	Towards a piezoelectric vibration-powered microgenerator. IET Science, Measurement and Technology, 2001, 148, 68.	0.7	275
63	A novel thick-film piezoelectric micro-generator. Smart Materials and Structures, 2001, 10, 850-852.	3.5	168
64	A method to determine the ageing rate of thick-film PZT layers. Measurement Science and Technology, 2001, 12, 663-670.	2.6	16
65	An investigation into the effect of modified firing profiles on the piezoelectric properties of thick-film PZT layers on silicon. Measurement Science and Technology, 2000, 11, 526-531.	2.6	37