

Analytical modeling, simulations and experimental study of a valveless PDMS micropump

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Experimental and numerical studies of a microfluidic device with compliant chambers for flow stabilization. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 075003.	2.6	17
2	Three-dimensional fluid-structural interaction simulation of slotted cymbal shaped valve piezoelectric micropump. , 2015, , .		0
3	A miniature circular pump with a piezoelectric bimorph and a disposable chamber for biomedical applications. <i>Sensors and Actuators A: Physical</i> , 2016, 251, 108-118.	4.1	58
4	Development of a solenoid actuated planar valveless micropump with single and multiple inlet/outlet arrangements. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 075013.	2.6	12
5	3D FEM analyses on flow field characteristics of the valveless piezoelectric pump. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2016, 29, 825-831.	3.7	31
6	Flow-induced deformation of compliant microchannels and its effect on pressure-flow characteristics. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	44
7	On effect of viscoelastic characteristics of polymers on performance of micropump. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401769121.	1.6	15
8	Advances in Valveless Piezoelectric Pump with Cone-shaped Tubes. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2017, 30, 766-781.	3.7	38
9	Dynamics modeling and vibration analysis of a piezoelectric diaphragm applied in valveless micropump. <i>Journal of Sound and Vibration</i> , 2017, 405, 133-143.	3.9	18
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11	Non-linear deflection of a circular diaphragm-type piezoactuator under loads of voltage and pressure. <i>Sensors and Actuators A: Physical</i> , 2017, 268, 91-100.	4.1	2
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13	Theoretical and experimental studies of a magnetically actuated valveless micropump. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 015016.	2.6	15
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15	Design and experimental investigation of a bi-directional valveless electromagnetic micro-pump. <i>Sensors and Actuators A: Physical</i> , 2018, 272, 310-317.	4.1	17
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18	Design, fabrication and experimental studies of compliant flexure diaphragm for micro pump. <i>International Journal of Engineering and Technology(UAE)</i> , 2018, 7, 66.	0.3	2
19	Design and Development of Piezoelectric Composite-Based Micropump. <i>Journal of Microelectromechanical Systems</i> , 2018, 27, 1105-1113.	2.5	17

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20	Pressure-driven flow through PDMS-based flexible microchannels and their applications in microfluidics. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	2.2	26
21	Equivalent Circuit Modeling for a Valveless Piezoelectric Pump. <i>Sensors</i> , 2018, 18, 2881.	3.8	18
22	Flow rate influencing effects of micropumps. <i>Sensors and Actuators A: Physical</i> , 2018, 276, 335-345.	4.1	12
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