

Laxman Saggere

List of Publications by Year in descending order

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36
papers

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840585

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all docs

39
docs citations

39
times ranked

343
citing authors

#	ARTICLE	IF	CITATIONS
1	Metrology and characterization of SU-8 microstructures using autofluorescence emission. Journal of Micromechanics and Microengineering, 2021, 31, 045014.	1.5	1
2	Neuromodulation using electroosmosis. Journal of Neural Engineering, 2021, 18, 046072.	1.8	3
3	Investigation of Injection Depth for Subretinal Delivery of Exogenous Glutamate to Restore Vision via Biomimetic Chemical Neuromodulation. IEEE Transactions on Biomedical Engineering, 2020, 67, 464-470.	2.5	3
4	Novel imaging technique for non-destructive metrology and characterization of ultraviolet-sensitive polymeric microstructures. Review of Scientific Instruments, 2020, 91, 033710.	0.6	2
5	Correlation between retinal ganglion cell loss and nerve crush force-impulse established with instrumented tweezers in mice. Neurological Research, 2020, 42, 379-386.	0.6	4
6	Development of a chemical retinal prosthesis. Journal of Vision, 2019, 19, 16.	0.1	0
7	Microfluidics-Based Subretinal Chemical Neuromodulation of Photoreceptor Degenerated Retinas. , 2018, 59, 418.		16
8	Mechanical Stimulation of the Retina: Therapeutic Feasibility and Cellular Mechanism. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1075-1083.	2.7	12
9	Prototype chemical synapse chip for spatially patterned neurotransmitter stimulation of the retina ex vivo. Microsystems and Nanoengineering, 2017, 3, 17052.	3.4	24
10	Methodology for Biomimetic Chemical Neuromodulation of Rat Retinas with the Neurotransmitter Glutamate In Vitro. Journal of Visualized Experiments, 2017, , .	0.2	4
11	Differential stimulation of the retina with subretinally injected exogenous neurotransmitter: A biomimetic alternative to electrical stimulation. Scientific Reports, 2016, 6, 38505.	1.6	14
12	Chemical stimulation of rat retinal neurons: feasibility of an epiretinal neurotransmitter-based prosthesis. Journal of Neural Engineering, 2015, 12, 016010.	1.8	22
13	Membrane Actuation for Micropumps. , 2015, , 1741-1746.		2
14	Biomimetic stimulation of rat retinal ganglion cells with the neurotransmitter glutamate. , 2014, 2014, 2593-6.		0
15	Development of a chemical retinal prosthesis: Stimulation of rat retina with glutamate. , 2013, 2013, 3134-7.		2
16	Design and development of a novel micro-clasp gripper for micromanipulation of complex-shaped objects. Sensors and Actuators A: Physical, 2012, 176, 110-123.	2.0	12
17	Measurement and Characterization of Stiction Force in Microstructures With Tapered Features. , 2011, , .		0
18	Special Issue on Dynamic Modeling, Control and Manipulation at the Nanoscale. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2009, 131, .	0.9	0

#	ARTICLE	IF	CITATIONS
19	Design and Development of a Chipscale Multifingered Micromanipulator System for Coordinated Microassembly. , 2009, , .		0
20	Membrane Actuation for Micropumps. , 2008, , 1078-1082.		1
21	A multi-fingered micromechanism for coordinated micro/nano manipulation. Journal of Micromechanics and Microengineering, 2007, 17, 576-585.	1.5	16
22	A Benchtop System to Assess Cortical Neural Interface Micromechanics. IEEE Transactions on Biomedical Engineering, 2007, 54, 1089-1096.	2.5	18
23	Design of a Compliant Micro-Clasp Mechanism for Micromanipulation Tasks. , 2007, , .		1
24	An analytical model and working equations for static deflections of a circular multi-layered diaphragm-type piezoelectric actuator. Sensors and Actuators A: Physical, 2007, 136, 673-689.	2.0	50
25	PZT thin films for low voltage actuation: Fabrication and characterization of the transverse piezoelectric coefficient. Sensors and Actuators A: Physical, 2007, 135, 690-699.	2.0	26
26	A Thin-Film Piezoelectric Microactuator Optically Powered via an Integrated Micro-Solar Cell. , 2006, , 41.		3
27	Dynamics of Micromanipulation Using a Compliant Micromanipulator. , 2006, , .		0
28	Development of a Light-Driven Thin-Film Piezoelectric Microactuator. , 2005, , 425.		1
29	An Improved Analytical Model for Deflections of a Circular Multi-Layer Piezoelectric Actuator. , 2005, , 415.		0
30	Modeling and Design of an Optically Powered Microactuator for a Microfluidic Dispenser. Journal of Mechanical Design, Transactions of the ASME, 2005, 127, 825-836.	1.7	12
31	Picoliter Fluidic Flow Characterization Using Ion-Selective Measurement. , 2005, , .		1
32	A Multi-Fingered Micromechanism for Coordinated Micro/Nano Manipulation. , 2005, , .		1
33	Light-driven actuation of fluids at microscale. , 2004, , .		4
34	A high-frequency, high-stiffness piezoelectric actuator for microhydraulic applications. Sensors and Actuators A: Physical, 2002, 97-98, 620-631.	2.0	11
35	Tailoring unconventional actuators using compliant transmissions: design methods and applications. IEEE/ASME Transactions on Mechatronics, 1999, 4, 396-408.	3.7	93
36	Functionality Evaluation of Photo-definable Polyimide, Flexible Interface for the Central Nervous System. , 0, , .		0