

# Bonnie L Gray

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

320  
citations

1039880

9  
h-index

1199470

12  
g-index

22  
all docs

22  
docs citations

22  
times ranked

538  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microchannel Platform for the Study of Endothelial Cell Shape and Function. <i>Biomedical Microdevices</i> , 2002, 4, 9-16.	1.4	67
2	A Review of Magnetic Composite Polymers Applied to Microfluidic Devices. <i>Journal of the Electrochemical Society</i> , 2014, 161, B3173-B3183.	1.3	56
3	PDMS as a sacrificial substrate for SU-8-based biomedical and microfluidic applications. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 095028.	1.5	43
4	Microfluidic active mixers employing ultra-high aspect-ratio rare-earth magnetic nano-composite polymer artificial cilia. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 025003.	1.5	32
5	A sacrificial SU-8 mask for direct metallization on PDMS. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 115014.	1.5	25
6	Design, fabrication and characterization of an arrayable all-polymer microfluidic valve employing highly magnetic rare-earth composite polymer. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 055012.	1.5	20
7	Fabrication Process for Electromagnetic Actuators Compatible with Polymer Based Microfluidic Devices. <i>ECS Transactions</i> , 2012, 41, 7-17.	0.3	18
8	Flexible Three-Dimensional Electrochemical Glucose Sensor with Improved Sensitivity Realized in Hybrid Polymer Microelectromechanical Systems Technique. <i>Journal of Diabetes Science and Technology</i> , 2011, 5, 1036-1043.	1.3	15
9	SU-8- and PDMS-based hybrid fabrication technology for combination of permanently bonded flexible and rigid features on a single device. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 065029.	1.5	11
10	Detecting Antibodies Secreted by Trapped Cells Using Extraordinary Optical Transmission. <i>IEEE Sensors Journal</i> , 2011, 11, 2732-2739.	2.4	9
11	Mechanical assembly and magnetic actuation of polydimethylsiloxane-iron composite interconnects for microfluidic systems. <i>Proceedings of SPIE</i> , 2008, , .	0.8	4
12	Effect of surface treatments/coatings and soft bake profile on surface uniformity and adhesion of SU-8 on a glass substrate. , 2010, , .		3
13	Creating Defect Tolerance in Microfluidic Capacitive/Photonic Biosensors. , 2011, , .		3
14	On-Board Array for Multiplexed Semi-Active Cooling-Rate-Controlled Cryopreservation of Living Cells. <i>Journal of Medical and Biological Engineering</i> , 2016, 36, 206-213.	1.0	3
15	Polymer Nanocomposites for Flexible and Wearable Fluidic and Biomedical Microdevices. , 2018, , .		3
16	Thick SU-8 and PDMS Three-Dimensional Enclosed Channels for Free-Standing Polymer Microfluidic Systems. , 2007, , .		2
17	A new low-cost, thick-film metallization transfer process onto PDMS using a sacrificial copper seed. , 2014, , .		2
18	Microinstrument for optical monitoring of endothelial cell migration under controlled tension/compression via integrated magnetic composite polymer actuation. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
19	Design of Electrical Interconnect for SU-8 Microfluidic Systems. , 2007, , .		1
20	Design for testing SU-8 and PDMS based hybrid glucose sensor. , 2008, , .		1
21	Smart and functional polymer materials for smart and functional microfluidic instruments. , 2014, , .		0
22	OSTE+ Polymer Composite with Rare Earth Hard Magnetic Particles for Flexible Reaction Injection-Moldable Microfluidic Actuators. , 2021, , .		0