

# Senol Mutlu

## List of Publications by Year in descending order

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55  
papers

938  
citations

566801

15  
h-index

454577

30  
g-index

57  
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57  
docs citations

57  
times ranked

1173  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Resonance Imagingâ€Compatible Optically Powered Miniature Wireless Modular Lorentz Force Actuators. <i>Advanced Science</i> , 2021, 8, 2002948.	5.6	18
2	A 70-to-2 V Triboelectric Energy Harvesting System Utilizing Parallel-SSHI Rectifier and DC-DC Converters. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021, 68, 210-223.	3.5	25
3	Challenges in neural interface electronics: miniaturization and wireless operation. , 2021, , 537-559.		1
4	Fabrication Protocol for Thermoplastic Microfluidic Devices: Nanoliter Volume Bioreactors for Cell Culturing. <i>Methods in Molecular Biology</i> , 2021, , 1.	0.4	0
5	Expanding the versatility of poly(dimethylsiloxane) through polymeric modification: an effective approach for improving triboelectric energy harvesting performance. <i>Smart Materials and Structures</i> , 2020, 29, 035024.	1.8	12
6	Cell trapping microfluidic chip made of Cyclo olefin polymer enabling two concurrent cell biology experiments with long term durability. <i>Biomedical Microdevices</i> , 2020, 22, 20.	1.4	5
7	Thermoplastic microfluidic bioreactors with integrated electrodes to study tumor treating fields on yeast cells. <i>Biomicrofluidics</i> , 2020, 14, 034104.	1.2	7
8	Real-Time Performance of a Tactile Neuroprosthesis on Awake Behaving Rats. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 1053-1062.	2.7	17
9	Improved Gain and Bandwidth of Water-Gated Field Effect Transistor (WG-FET) Circuits Using Solutions with Higher Ion Concentration. , 2019, , .		0
10	Displacement Sensor with Inherent Read-Out Circuit Using Water-Gated Field Effect Transistor (WG-FET). <i>Proceedings (mdpi)</i> , 2018, 2, 926.	0.2	1
11	Increased yield of MoS2 monolayer exfoliation through the bimetallic corrosion of aluminum. <i>Applied Physics Letters</i> , 2018, 113, 213101.	1.5	1
12	Realization and AC modeling of electronic circuits with water-gated field effect transistors (WG-FETs) based on gate probe distance. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 115017.	1.5	3
13	Integration of Paper Based Electro-Osmotic Pumps to Continuous Microfluidic Channels. <i>Proceedings (mdpi)</i> , 2018, 2, 870.	0.2	0
14	Paper based integrated microfluidic system using electro-osmotic pumps with liquid bridges. , 2018, , .		1
15	A low cost PS based microfluidic platform to investigate cell cycle towards developing a therapeutic strategy for cancer. <i>Biomedical Microdevices</i> , 2018, 20, 57.	1.4	4
16	Realization of triboelectric energy harvesters using steel-polymer microfabrication methods. , 2017, , .		4
17	Europe and the Future for WPT : European Contributions to Wireless Power Transfer Technology. <i>IEEE Microwave Magazine</i> , 2017, 18, 56-87.	0.7	59
18	Fabrication of cyclo olefin polymer microfluidic devices for trapping and culturing of yeast cells. <i>Biomedical Microdevices</i> , 2017, 19, 40.	1.4	18

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19	Optically Powered Optical Transmitter Using a Single Light-Emitting Diode. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 2003-2012.	3.5	11
20	Modelling and Realization of a Water-Gated Field Effect Transistor (WG-FET) Using 16-nm-Thick Mono-Si Film. Scientific Reports, 2017, 7, 12190.	1.6	20
21	Advances in microfluidic devices made from thermoplastics used in cell biology and analyses. Biomicrofluidics, 2017, 11, 051502.	1.2	82
22	Thin film based semi-active resonant marker design for low profile interventional cardiovascular MRI devices. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2017, 30, 93-101.	1.1	10
23	Investigation of the Salt Concentration Dependence of Water-Gated Field Effect Transistors (WG-FET) Using 16-nm-Thick Single Crystalline Si Film. Proceedings (mdpi), 2017, 1, .	0.2	2
24	Improved Repeatability in Planar Water-gated Field Effect Transistor (WG-FET) with 16-nm-thick Single Crystalline Si Film. Procedia Engineering, 2016, 168, 1739-1742.	1.2	5
25	A microfabricated strain gauge array on polymer substrate for tactile neuroprostheses in rats. Journal of Micromechanics and Microengineering, 2016, 26, 084006.	1.5	9
26	Fabrication of steel displacement amplifiers integrated to microfluidic channels. , 2016, , .		2
27	Optical Power Delivery and Data Transmission in a Wireless and Batteryless Microsystem Using a Single Light Emitting Diode. Journal of Microelectromechanical Systems, 2015, 24, 155-165.	1.7	28
28	Realization of a Planar Water-gated Field Effect Transistor (WG-FET) Using 16-nm-thick Single Crystalline Si Film. Procedia Engineering, 2014, 87, 76-79.	1.2	7
29	Using a low-amplitude RF pulse at echo time (LARFET) for device localization in MRI. Medical and Biological Engineering and Computing, 2014, 52, 885-894.	1.6	0
30	Fabrication of a planar water gated organic field effect transistor using a hydrophilic polythiophene for improved digital inverter performance. Organic Electronics, 2014, 15, 646-653.	1.4	23
31	A solution state diode using semiconductor polymer nanorods with nanogap electrodes. Nanotechnology, 2012, 23, 245203.	1.3	3
32	Microfluidic channel integrated solution state diode using semiconductor polymer nanorods with nanogap electrodes. , 2012, , .		0
33	An Optically Powered CMOS Receiver System for Intravascular Magnetic Resonance Applications. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2012, 2, 683-691.	2.7	14
34	Functionalization of Reactive Polymeric Coatings via Diels-Alder Reaction Using Microcontact Printing. Macromolecular Chemistry and Physics, 2012, 213, 166-172.	1.1	42
35	Optoelectronic CMOS Power Supply Unit for Electrically Isolated Microscale Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 747-756.	1.9	18
36	Realization of polymer charge pump circuits using polymer semiconductors. Organic Electronics, 2011, 12, 312-321.	1.4	13

#	ARTICLE	IF	CITATIONS
37	An RF front-end with optically powered CMOS power supply. , 2011, , .		0
38	Selectively thinned stainless steel scanners through electrical discharge machining. , 2011, , .		0
39	Energy harvesting and data transmitting microsystem using a light emitting diode. , 2011, , .		2
40	Polymer-MEMS-Based Optoelectronic Display. IEEE Transactions on Electron Devices, 2010, 57, 145-152.	1.6	7
41	An active microheater matrix using polymer semiconductor diodes for thermal patterning. Journal of Micromechanics and Microengineering, 2010, 20, 035019.	1.5	0
42	Self-terminating electrochemical etching of stainless steel for the fabrication of micro-mirrors. Journal of Micromechanics and Microengineering, 2010, 20, 095009.	1.5	13
43	Design and fabrication of two-axis micromachined steel scanners. Journal of Micromechanics and Microengineering, 2009, 19, 075001.	1.5	24
44	Post-fabrication electric field and thermal treatment of polymer light emitting diodes and their photovoltaic properties. Organic Electronics, 2009, 10, 18-26.	1.4	27
45	PLED integrated FR4 MEMS display. , 2009, , .		0
46	Post fabrication electric field treatment of polymer light emitting and photovoltaic devices. , 2008, , .		0
47	Microfabricated Gate-Modulated Electrochemical Ion Spectroscopy Sensor. , 2007, , .		0
48	Ion Spectroscopy Using Microfluidic FlowFETs. ECS Transactions, 2006, 3, 35-42.	0.3	0
49	Nano-Scale Abrasion Studies of Materials Used in MEMS Devices and Packages. , 2005, , 563.		0
50	Monolithic valves for microfluidic chips based on thermoresponsive polymer gels. Electrophoresis, 2003, 24, 3694-3702.	1.3	108
51	Flow Control Valves for Analytical Microfluidic Chips without Mechanical Parts Based on Thermally Responsive Monolithic Polymers. Analytical Chemistry, 2003, 75, 1958-1961.	3.2	189
52	Shaped comb fingers for tailored electromechanical restoring force. Journal of Microelectromechanical Systems, 2003, 12, 373-383.	1.7	84
53	Micromachined porous polymer for bubble free electro-osmotic pump. , 0, , .		6
54	A thermally responsive polymer microvalve without mechanical parts photo-patterned in a parylene channel. , 0, , .		11

#	ARTICLE	IF	CITATIONS
55	Maskless Electrochemical Patterning of Gold Films for Biosensors Using Micromachined Polyimide Probes. , 0, , .		1