

Senol Mutlu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9343387/publications.pdf>

Version: 2024-02-01

55
papers

938
citations

566801

15
h-index

454577

30
g-index

57
all docs

57
docs citations

57
times ranked

1173
citing authors

#	ARTICLE	IF	CITATIONS
1	Flow Control Valves for Analytical Microfluidic Chips without Mechanical Parts Based on Thermally Responsive Monolithic Polymers. <i>Analytical Chemistry</i> , 2003, 75, 1958-1961.	3.2	189
2	Monolithic valves for microfluidic chips based on thermoresponsive polymer gels. <i>Electrophoresis</i> , 2003, 24, 3694-3702.	1.3	108
3	Shaped comb fingers for tailored electromechanical restoring force. <i>Journal of Microelectromechanical Systems</i> , 2003, 12, 373-383.	1.7	84
4	Advances in microfluidic devices made from thermoplastics used in cell biology and analyses. <i>Biomicrofluidics</i> , 2017, 11, 051502.	1.2	82
5	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
6	Functionalization of Reactive Polymeric Coatings via Diels-Alder Reaction Using Microcontact Printing. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 166-172.	1.1	42
7	Optical Power Delivery and Data Transmission in a Wireless and Batteryless Microsystem Using a Single Light Emitting Diode. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 155-165.	1.7	28
8	Post-fabrication electric field and thermal treatment of polymer light emitting diodes and their photovoltaic properties. <i>Organic Electronics</i> , 2009, 10, 18-26.	1.4	27
9	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
10	Design and fabrication of two-axis micromachined steel scanners. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 075001.	1.5	24
11	Fabrication of a planar water gated organic field effect transistor using a hydrophilic polythiophene for improved digital inverter performance. <i>Organic Electronics</i> , 2014, 15, 646-653.	1.4	23
12	Modelling and Realization of a Water-Gated Field Effect Transistor (WG-FET) Using 16-nm-Thick Mono-Si Film. <i>Scientific Reports</i> , 2017, 7, 12190.	1.6	20
13	Optoelectronic CMOS Power Supply Unit for Electrically Isolated Microscale Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011, 17, 747-756.	1.9	18
14	Fabrication of cyclo olefin polymer microfluidic devices for trapping and culturing of yeast cells. <i>Biomedical Microdevices</i> , 2017, 19, 40.	1.4	18
15	Magnetic Resonance Imaging-Compatible Optically Powered Miniature Wireless Modular Lorentz Force Actuators. <i>Advanced Science</i> , 2021, 8, 2002948.	5.6	18
16	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
17	An Optically Powered CMOS Receiver System for Intravascular Magnetic Resonance Applications. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2012, 2, 683-691.	2.7	14
18	Self-terminating electrochemical etching of stainless steel for the fabrication of micro-mirrors. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 095009.	1.5	13

#	ARTICLE	IF	CITATIONS
19	Realization of polymer charge pump circuits using polymer semiconductors. <i>Organic Electronics</i> , 2011, 12, 312-321.	1.4	13
20	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
21	A thermally responsive polymer microvalve without mechanical parts photo-patterned in a parylene channel. , 0, , .		11
22	Optically Powered Optical Transmitter Using a Single Light-Emitting Diode. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2017, 64, 2003-2012.	3.5	11
23	Thin film based semi-active resonant marker design for low profile interventional cardiovascular MRI devices. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2017, 30, 93-101.	1.1	10
24	A microfabricated strain gauge array on polymer substrate for tactile neuroprostheses in rats. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 084006.	1.5	9
25	Polymer-MEMS-Based Optoelectronic Display. <i>IEEE Transactions on Electron Devices</i> , 2010, 57, 145-152.	1.6	7
26	Realization of a Planar Water-gated Field Effect Transistor (WG-FET) Using 16-nm-thick Single Crystalline Si Film. <i>Procedia Engineering</i> , 2014, 87, 76-79.	1.2	7
27	Thermoplastic microfluidic bioreactors with integrated electrodes to study tumor treating fields on yeast cells. <i>Biomicrofluidics</i> , 2020, 14, 034104.	1.2	7
28	Micromachined porous polymer for bubble free electro-osmotic pump. , 0, , .		6
29	Improved Repeatability in Planar Water-gated Field Effect Transistor (WG-FET) with 16-nm-thick Single Crystalline Si Film. <i>Procedia Engineering</i> , 2016, 168, 1739-1742.	1.2	5
30	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
31	Realization of triboelectric energy harvesters using steel-polymer microfabrication methods. , 2017, , .		4
32	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
33	A solution state diode using semiconductor polymer nanorods with nanogap electrodes. <i>Nanotechnology</i> , 2012, 23, 245203.	1.3	3
34	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
35	Energy harvesting and data transmitting microsystem using a light emitting diode. , 2011, , .		2
36	Fabrication of steel displacement amplifiers integrated to microfluidic channels. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
37	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
38	Maskless Electrochemical Patterning of Gold Films for Biosensors Using Micromachined Polyimide Probes. , 0, , .		1
39	Displacement Sensor with Inherent Read-Out Circuit Using Water-Gated Field Effect Transistor (WG-FET). Proceedings (mdpi), 2018, 2, 926.	0.2	1
40	Increased yield of MoS2 monolayer exfoliation through the bimetallic corrosion of aluminum. Applied Physics Letters, 2018, 113, 213101.	1.5	1
41	Paper based integrated microfluidic system using electro-osmotic pumps with liquid bridges. , 2018, , .		1
42	Challenges in neural interface electronics: miniaturization and wireless operation. , 2021, , 537-559.		1
43	Nano-Scale Abrasion Studies of Materials Used in MEMS Devices and Packages. , 2005, , 563.		0
44	Ion Spectroscopy Using Microfluidic FlowFETs. ECS Transactions, 2006, 3, 35-42.	0.3	0
45	Microfabricated Gate-Modulated Electrochemical Ion Spectroscopy Sensor. , 2007, , .		0
46	Post fabrication electric field treatment of polymer light emitting and photovoltaic devices. , 2008, , .		0
47	PLED integrated FR4 MEMS display. , 2009, , .		0
48	An active microheater matrix using polymer semiconductor diodes for thermal patterning. Journal of Micromechanics and Microengineering, 2010, 20, 035019.	1.5	0
49	An RF front-end with optically powered CMOS power supply. , 2011, , .		0
50	Selectively thinned stainless steel scanners through electrical discharge machining. , 2011, , .		0
51	Microfluidic channel integrated solution state diode using semiconductor polymer nanorods with nanogap electrodes. , 2012, , .		0
52	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
53	Integration of Paper Based Electro-Osmotic Pumps to Continuous Microfluidic Channels. Proceedings (mdpi), 2018, 2, 870.	0.2	0
54	Improved Gain and Bandwidth of Water-Gated Field Effect Transistor (WG-FET) Circuits Using Solutions with Higher Ion Concentration. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
55	Fabrication Protocol for Thermoplastic Microfluidic Devices: Nanoliter Volume Bioreactors for Cell Culturing. <i>Methods in Molecular Biology</i> , 2021, , 1.	0.4	0