Demir Akin

List of Publications by Year in descending order

43 papers	3,357 citations	257450 24 h-index	302126 39 g-index
44 all docs	44 docs citations	44 times ranked	4990 citing authors

#	Article	IF	Citations
1	A Cellular Trojan Horse for Delivery of Therapeutic Nanoparticles into Tumors. Nano Letters, 2007, 7, 3759-3765.	9.1	531
2	Single virus particle mass detection using microresonators with nanoscale thickness. Applied Physics Letters, 2004, 84, 1976-1978.	3.3	520
3	Solid-state nanopore channels with DNA selectivity. Nature Nanotechnology, 2007, 2, 243-248.	31.5	370
4	Bacteria-mediated delivery of nanoparticles and cargo into cells. Nature Nanotechnology, 2007, 2, 441-449.	31.5	305
5	Anomalous resonance in a nanomechanical biosensor. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13362-13367.	7.1	149
6	Detection of bacterial cells and antibodies using surface micromachined thin silicon cantilever resonators. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 2785.	1.6	112
7	Ultrananocrystalline diamond film as an optimal cell interface for biomedical applications. Biomedical Microdevices, 2007, 9, 787-794.	2.8	111
8	Integrated nanoscale silicon sensors using top-down fabrication. Applied Physics Letters, 2003, 83, 4613-4615.	3.3	107
9	Characterization of vaccinia virus particles using microscale silicon cantilever resonators and atomic force microscopy. Sensors and Actuators B: Chemical, 2006, 115, 189-197.	7.8	95
10	Advanced Pointâ€ofâ€Care Testing Technologies for Human Acute Respiratory Virus Detection. Advanced Materials, 2022, 34, e2103646.	21.0	92
11	BIOMEMS AND NANOTECHNOLOGY-BASED APPROACHES FOR RAPID DETECTION OF BIOLOGICAL ENTITIES. Journal of Rapid Methods and Automation in Microbiology, 2007, 15, 1-32.	0.4	85
12	Fluorescent Magnetic Nanoparticles for Magnetically Enhanced Cancer Imaging and Targeting in Living Subjects. ACS Nano, 2012, 6, 6862-6869.	14.6	79
13	Dielectrophoresis-based cell manipulation using electrodes on a reusable printed circuit board. Lab on A Chip, 2009, 9, 2224.	6.0	76
14	Characterization and modeling of a microfluidic dielectrophoresis filter for biological species. Journal of Microelectromechanical Systems, 2005, 14, 103-112.	2.5	73
15	Poly(dimethylsiloxane) (PDMS) and Silicon Hybrid Biochip for Bacterial Culture. Biomedical Microdevices, 2003, 5, 281-290.	2.8	71
16	Rapid and specific labeling of single live Mycobacterium tuberculosis with a dual-targeting fluorogenic probe. Science Translational Medicine, 2018, 10, .	12.4	59
17	Real-Time Virus Trapping and Fluorescent Imaging in Microfluidic Devices. Nano Letters, 2004, 4, 257-259.	9.1	58
18	Multitarget, quantitative nanoplasmonic electrical field-enhanced resonating device (NE) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (<s States of America, 2015, 112, E4354-63.	7.1	56

#	Article	IF	Citations
19	Real-time detection of airborne viruses on a mass-sensitive device. Applied Physics Letters, 2008, 93, 13901.	3.3	49
20	Biotargeted nanomedicines for cancer: six tenets before you begin. Nanomedicine, 2013, 8, 299-308.	3.3	47
21	PCR-based detection in a micro-fabricated platform. Lab on A Chip, 2008, 8, 1130.	6.0	44
22	Nanomedicine for Spontaneous Brain Tumors: A Companion Clinical Trial. ACS Nano, 2019, 13, 2858-2869.	14.6	41
23	Capture and alignment of phi29 viral particles in sub-40 nanometer porous alumina membranes. Biomedical Microdevices, 2009, 11, 135-142.	2.8	36
24	Electrical capture and lysis of vaccinia virus particles using silicon nano-scale probe array. Biomedical Microdevices, 2007, 9, 877-883.	2.8	34
25	A comparison of two RNA isolation methods for double-stranded RNA of infectious bursal disease virus. Journal of Virological Methods, 1998, 74, 179-184.	2.1	20
26	Amplification and cloning of infectious bursal disease virus genomic RNA segments by long and accurate PCR. Journal of Virological Methods, 1999, 82, 55-61.	2.1	18
27	Micrometer-Scale Magnetic-Resonance-Coupled Radio-Frequency Identification and Transceivers for Wireless Sensors in Cells. Physical Review Applied, 2017, 8, .	3.8	18
28	Micro-assembly of functionalized particulate monolayer on C18-derivatized SiO2 surfaces. Biotechnology and Bioengineering, 2003, 83, 416-427.	3.3	16
29	Volbots: Volvox Microalgaeâ€Based Robots for Multimode Precision Imaging and Therapy. Advanced Functional Materials, 2022, 32, .	14.9	12
30	Quantitative competitive polymerase chain reaction for detection and quantification of infectious bursal disease virus cDNA and RNA. Journal of Virological Methods, 1997, 66, 29-38.	2.1	10
31	Intracellular detection and communication of a wireless chip in cell. Scientific Reports, 2021, 11, 5967.	3.3	10
32	Capture of airborne nanoparticles in swirling flows using non-uniform electrostatic fields for bio-sensor applications. Sensors and Actuators B: Chemical, 2007, 121, 560-566.	7.8	9
33	Acoustic Fabrication of Living Cardiomyocyte-based Hybrid Biorobots. ACS Nano, 2022, 16, 10219-10230.	14.6	9
34	Progress and challenges in biomarker enrichment for cancer early detection. Progress in Biomedical Engineering, 2021, 3, 043001.	4.9	6
35	Robotic Pill for Biomarker and Fluid Sampling in the Gastrointestinal Tract. Advanced Intelligent Systems, 2022, 4, .	6.1	6
36	Effects of inlet/outlet configurations on the electrostatic capture of airborne nanoparticles and viruses. Measurement Science and Technology, 2008, 19, 065204.	2.6	5

#	Article	IF	Citations
37	Internalization of subcellular-scale microfabricated chips by healthy and cancer cells. PLoS ONE, 2018, 13, e0194712.	2.5	5
38	Resonant mass biosensor for ultrasensitive detection of bacterial cells. , 2003, 4982, 21.		3
39	Mechanical effects of attaching protein layers on nanoscale-thick cantilever beams for resonant detection of virus particles. , 0, , .		1
40	Dielectrophoresis and antibody mediated selective capture of microorganisms in micro-fluidic biochips. , 0, , .		1
41	Spore Detection in Air and Fluid Using Micro-cantilever Sensors. Materials Research Society Symposia Proceedings, 2005, 888, 1.	0.1	1
42	Electrostatic Capture of Airborne Nanoparticles in Swirling Flows for Bio-MEMS Applications. , 2006, , 45.		1
43	BioMEMS to bionanotechnology: state of the art in integrated biochips and future prospects. , 2004, , .		0