

Demir Akin

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Advanced Point-of-Care Testing Technologies for Human Acute Respiratory Virus Detection. <i>Advanced Materials</i> , 2022, 34, e2103646. | 21.0 | 92 |
| 2 | Robotic Pill for Biomarker and Fluid Sampling in the Gastrointestinal Tract. <i>Advanced Intelligent Systems</i> , 2022, 4, . | 6.1 | 6 |
| 3 | Volbots: Volvox Microalgae-Based Robots for Multimode Precision Imaging and Therapy. <i>Advanced Functional Materials</i> , 2022, 32, . | 14.9 | 12 |
| 4 | Acoustic Fabrication of Living Cardiomyocyte-based Hybrid Biorobots. <i>ACS Nano</i> , 2022, 16, 10219-10230. | 14.6 | 9 |
| 5 | Intracellular detection and communication of a wireless chip in cell. <i>Scientific Reports</i> , 2021, 11, 5967. | 3.3 | 10 |
| 6 | Progress and challenges in biomarker enrichment for cancer early detection. <i>Progress in Biomedical Engineering</i> , 2021, 3, 043001. | 4.9 | 6 |
| 7 | Nanomedicine for Spontaneous Brain Tumors: A Companion Clinical Trial. <i>ACS Nano</i> , 2019, 13, 2858-2869. | 14.6 | 41 |
| 8 | Rapid and specific labeling of single live <i>Mycobacterium tuberculosis</i> with a dual-targeting fluorogenic probe. <i>Science Translational Medicine</i> , 2018, 10, . | 12.4 | 59 |
| 9 | Internalization of subcellular-scale microfabricated chips by healthy and cancer cells. <i>PLoS ONE</i> , 2018, 13, e0194712. | 2.5 | 5 |
| 10 | Micrometer-Scale Magnetic-Resonance-Coupled Radio-Frequency Identification and Transceivers for Wireless Sensors in Cells. <i>Physical Review Applied</i> , 2017, 8, . | 3.8 | 18 |
| 11 | Multitarget, quantitative nanoplasmonic electrical field-enhanced resonating device (NE) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 States of America, 2015, 112, E4354-63. | 7.1 | 56 |
| 12 | Biotargeted nanomedicines for cancer: six tenets before you begin. <i>Nanomedicine</i> , 2013, 8, 299-308. | 3.3 | 47 |
| 13 | Fluorescent Magnetic Nanoparticles for Magnetically Enhanced Cancer Imaging and Targeting in Living Subjects. <i>ACS Nano</i> , 2012, 6, 6862-6869. | 14.6 | 79 |
| 14 | Capture and alignment of phi29 viral particles in sub-40 nanometer porous alumina membranes. <i>Biomedical Microdevices</i> , 2009, 11, 135-142. | 2.8 | 36 |
| 15 | Dielectrophoresis-based cell manipulation using electrodes on a reusable printed circuit board. <i>Lab on A Chip</i> , 2009, 9, 2224. | 6.0 | 76 |
| 16 | PCR-based detection in a micro-fabricated platform. <i>Lab on A Chip</i> , 2008, 8, 1130. | 6.0 | 44 |
| 17 | Effects of inlet/outlet configurations on the electrostatic capture of airborne nanoparticles and viruses. <i>Measurement Science and Technology</i> , 2008, 19, 065204. | 2.6 | 5 |
| 18 | Real-time detection of airborne viruses on a mass-sensitive device. <i>Applied Physics Letters</i> , 2008, 93, 13901. | 3.3 | 49 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | A Cellular Trojan Horse for Delivery of Therapeutic Nanoparticles into Tumors. Nano Letters, 2007, 7, 3759-3765. | 9.1 | 531 |
| 20 | 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 |
| 21 | Bacteria-mediated delivery of nanoparticles and cargo into cells. Nature Nanotechnology, 2007, 2, 441-449. | 31.5 | 305 |
| 22 | Solid-state nanopore channels with DNA selectivity. Nature Nanotechnology, 2007, 2, 243-248. | 31.5 | 370 |
| 23 | 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 |
| 24 | Ultrananocrystalline diamond film as an optimal cell interface for biomedical applications. Biomedical Microdevices, 2007, 9, 787-794. | 2.8 | 111 |
| 25 | Electrical capture and lysis of vaccinia virus particles using silicon nano-scale probe array. Biomedical Microdevices, 2007, 9, 877-883. | 2.8 | 34 |
| 26 | 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 |
| 27 | Electrostatic Capture of Airborne Nanoparticles in Swirling Flows for Bio-MEMS Applications. , 2006, , 45. | | 1 |
| 28 | 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 |
| 29 | Spore Detection in Air and Fluid Using Micro-cantilever Sensors. Materials Research Society Symposia Proceedings, 2005, 888, 1. | 0.1 | 1 |
| 30 | Characterization and modeling of a microfluidic dielectrophoresis filter for biological species. Journal of Microelectromechanical Systems, 2005, 14, 103-112. | 2.5 | 73 |
| 31 | Single virus particle mass detection using microresonators with nanoscale thickness. Applied Physics Letters, 2004, 84, 1976-1978. | 3.3 | 520 |
| 32 | 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 |
| 33 | BioMEMS to bionanotechnology: state of the art in integrated biochips and future prospects. , 2004, , . | | 0 |
| 34 | Real-Time Virus Trapping and Fluorescent Imaging in Microfluidic Devices. Nano Letters, 2004, 4, 257-259. | 9.1 | 58 |
| 35 | Poly(dimethylsiloxane) (PDMS) and Silicon Hybrid Biochip for Bacterial Culture. Biomedical Microdevices, 2003, 5, 281-290. | 2.8 | 71 |
| 36 | Micro-assembly of functionalized particulate monolayer on C18-derivatized SiO ₂ surfaces. Biotechnology and Bioengineering, 2003, 83, 416-427. | 3.3 | 16 |

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|----|---|-----|-----------|
| 37 | Integrated nanoscale silicon sensors using top-down fabrication. Applied Physics Letters, 2003, 83, 4613-4615. | 3.3 | 107 |
| 38 | Resonant mass biosensor for ultrasensitive detection of bacterial cells. , 2003, 4982, 21. | | 3 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | Mechanical effects of attaching protein layers on nanoscale-thick cantilever beams for resonant detection of virus particles. , 0, , . | | 1 |
| 43 | Dielectrophoresis and antibody mediated selective capture of microorganisms in micro-fluidic biochips. , 0, , . | | 1 |