

Selim Olcum

List of Publications by Year in descending order

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35
papers

1,600
citations

430874

18
h-index

580821

25
g-index

38
all docs

38
docs citations

38
times ranked

2073
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of Navier Slip on Individual Nanoparticles in Liquid. <i>Nano Letters</i> , 2021, 21, 4959-4965.	9.1	11
2	Mass measurements during lymphocytic leukemia cell polyploidization decouple cell cycle- and cell size-dependent growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15659-15665.	7.1	44
3	Suspended Nanochannel Resonator Arrays with Piezoresistive Sensors for High-Throughput Weighing of Nanoparticles in Solution. <i>ACS Sensors</i> , 2020, 5, 1230-1238.	7.8	16
4	Rapid and high-precision sizing of single particles using parallel suspended microchannel resonator arrays and deconvolution. <i>Review of Scientific Instruments</i> , 2019, 90, 085004.	1.3	14
5	Noninvasive monitoring of single-cell mechanics by acoustic scattering. <i>Nature Methods</i> , 2019, 16, 263-269.	19.0	70
6	Microfluidic active loading of single cells enables analysis of complex clinical specimens. <i>Nature Communications</i> , 2018, 9, 4784.	12.8	20
7	Linking single-cell measurements of mass, growth rate, and gene expression. <i>Genome Biology</i> , 2018, 19, 207.	8.8	42
8	Graphene-Based Adaptive Thermal Camouflage. <i>Nano Letters</i> , 2018, 18, 4541-4548.	9.1	252
9	Determining therapeutic susceptibility in multiple myeloma by single-cell mass accumulation. <i>Nature Communications</i> , 2017, 8, 1613.	12.8	45
10	High-throughput measurement of single-cell growth rates using serial microfluidic mass sensor arrays. <i>Nature Biotechnology</i> , 2016, 34, 1052-1059.	17.5	201
11	Drug sensitivity of single cancer cells is predicted by changes in mass accumulation rate. <i>Nature Biotechnology</i> , 2016, 34, 1161-1167.	17.5	91
12	High-speed multiple-mode mass-sensing resolves dynamic nanoscale mass distributions. <i>Nature Communications</i> , 2015, 6, 7070.	12.8	106
13	Weighing nanoparticles in solution at the attogram scale. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1310-1315.	7.1	120
14	Intracellular Water Exchange for Measuring the Dry Mass, Water Mass and Changes in Chemical Composition of Living Cells. <i>PLoS ONE</i> , 2013, 8, e67590.	2.5	118
15	High-power CMUTs: design and experimental verification. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 1276-1284.	3.0	30
16	Radiation impedance of collapsed capacitive micromachined ultrasonic transducers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 1301-1308.	3.0	8
17	An improved lumped element nonlinear circuit model for a circular CMUT cell. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 1791-1799.	3.0	78
18	An equivalent circuit model for transmitting capacitive micromachined ultrasonic transducers in collapse mode. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 1468-1477.	3.0	15

#	ARTICLE	IF	CITATIONS
19	Deep-collapse operation of capacitive micromachined ultrasonic transducers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2475-2483.	3.0	36
20	CMUT array element in deep-collapse mode. , 2011, , .		4
21	Radiation impedance of an array of circular capacitive micromachined ultrasonic transducers in collapsed state. , 2011, , .		8
22	Design and implementation of capacitive micromachined ultrasonic transducers for high power. , 2011, , .		0
23	Reducing anchor loss in micromechanical extensional mode resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 448-454.	3.0	17
24	Radiation impedance of an array of circular capacitive micromachined ultrasonic transducers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 969-976.	3.0	41
25	Nonlinear modeling of an immersed transmitting capacitive micromachined ultrasonic transducer for harmonic balance analysis. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 438-447.	3.0	42
26	Optimizing CMUT geometry for high power. , 2010, , .		5
27	An equivalent circuit for collapse operation mode of CMUTs. , 2010, , .		0
28	A novel equivalent circuit model for CMUTs. , 2009, , .		4
29	Bandwidth, power and noise considerations in airborne cMUTs. , 2009, , .		8
30	Wafer bonded capacitive micromachined underwater transducers. , 2009, , .		12
31	Tunable surface plasmon resonance on an elastomeric substrate. Optics Express, 2009, 17, 8542.	3.4	66
32	An optical microcantilever with integrated grating coupler. , 2009, , .		0
33	P4M-3 Experimental Characterization of Capacitive Micromachined Ultrasonic Transducers. , 2007, , .		0
34	Parametric linear modeling of circular cMUT membranes in vacuum. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 1229-1239.	3.0	29
35	Optimization of the gain-bandwidth product of capacitive micromachined ultrasonic transducers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 2211-2219.	3.0	45