

# 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	Graphene-Based Adaptive Thermal Camouflage. <i>Nano Letters</i> , 2018, 18, 4541-4548.	9.1	252
2	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
3	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
4	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
5	High-speed multiple-mode mass-sensing resolves dynamic nanoscale mass distributions. <i>Nature Communications</i> , 2015, 6, 7070.	12.8	106
6	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
7	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
8	Noninvasive monitoring of single-cell mechanics by acoustic scattering. <i>Nature Methods</i> , 2019, 16, 263-269.	19.0	70
9	Tunable surface plasmon resonance on an elastomeric substrate. <i>Optics Express</i> , 2009, 17, 8542.	3.4	66
10	Optimization of the gain-bandwidth product of capacitive micromachined ultrasonic transducers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005, 52, 2211-2219.	3.0	45
11	Determining therapeutic susceptibility in multiple myeloma by single-cell mass accumulation. <i>Nature Communications</i> , 2017, 8, 1613.	12.8	45
12	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
13	Nonlinear modeling of an immersed transmitting capacitive micromachined ultrasonic transducer for harmonic balance analysis. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010, 57, 438-447.	3.0	42
14	Linking single-cell measurements of mass, growth rate, and gene expression. <i>Genome Biology</i> , 2018, 19, 207.	8.8	42
15	Radiation impedance of an array of circular capacitive micromachined ultrasonic transducers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010, 57, 969-976.	3.0	41
16	Deep-collapse operation of capacitive micromachined ultrasonic transducers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 2475-2483.	3.0	36
17	High-power CMUTs: design and experimental verification. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 1276-1284.	3.0	30
18	Parametric linear modeling of circular cMUT membranes in vacuum. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 1229-1239.	3.0	29

#	ARTICLE	IF	CITATIONS
19	Microfluidic active loading of single cells enables analysis of complex clinical specimens. Nature Communications, 2018, 9, 4784.	12.8	20
20	Reducing anchor loss in micromechanical extensional mode resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 448-454.	3.0	17
21	Suspended Nanochannel Resonator Arrays with Piezoresistive Sensors for High-Throughput Weighing of Nanoparticles in Solution. ACS Sensors, 2020, 5, 1230-1238.	7.8	16
22	An equivalent circuit model for transmitting capacitive micromachined ultrasonic transducers in collapse mode. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1468-1477.	3.0	15
23	Rapid and high-precision sizing of single particles using parallel suspended microchannel resonator arrays and deconvolution. Review of Scientific Instruments, 2019, 90, 085004.	1.3	14
24	Wafer bonded capacitive micromachined underwater transducers. , 2009, , .		12
25	Measurement of Navier Slip on Individual Nanoparticles in Liquid. Nano Letters, 2021, 21, 4959-4965.	9.1	11
26	Bandwidth, power and noise considerations in airborne cMUTs. , 2009, , .		8
27	Radiation impedance of an array of circular capacitive micromachined ultrasonic transducers in collapsed state. , 2011, , .		8
28	Radiation impedance of collapsed capacitive micromachined ultrasonic transducers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1301-1308.	3.0	8
29	Optimizing CMUT geometry for high power. , 2010, , .		5
30	A novel equivalent circuit model for CMUTs. , 2009, , .		4
31	CMUT array element in deep-collapse mode. , 2011, , .		4
32	P4M-3 Experimental Characterization of Capacitive Micromachined Ultrasonic Transducers. , 2007, , .		0
33	An optical microcantilever with integrated grating coupler. , 2009, , .		0
34	An equivalent circuit for collapse operation mode of CMUTs. , 2010, , .		0
35	Design and implementation of capacitive micromachined ultrasonic transducers for high power. , 2011, , .		0