

# Mehmet Selim Hanay

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

1,553  
citations

687363

13  
h-index

839539

18  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1589  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical and Microwave Resonators for Sensing and Sizing Single Cells. , 2022, , 973-996.		0
2	Atmospheric Pressure Mass Spectrometry of Single Viruses and Nanoparticles by Nanoelectromechanical Systems. ACS Nano, 2022, 16, 3821-3833.	14.6	20
3	Nanomechanical Measurement of the Brownian Force Noise in a Viscous Liquid. Nano Letters, 2021, 21, 375-381.	9.1	8
4	Monitoring Micromechanical Buckling at High-Speed for Sensing and Transducer Applications. , 2021, , .		0
5	Frequency-Dependent Piezoresistive Effect in Top-down Fabricated Gold Nanoresistors. Nano Letters, 2021, 21, 6533-6539.	9.1	6
6	Fundamental Sensitivity Limitations of Nanomechanical Resonant Sensors Due to Thermomechanical Noise. IEEE Sensors Journal, 2020, 20, 1947-1961.	4.7	22
7	Observation of coupled mechanical resonance modes within suspended 3D nanowire arrays. Nanoscale, 2020, 12, 22042-22048.	5.6	9
8	Performance of Nano-Electromechanical Systems as Nanoparticle Position Sensors. Frontiers in Mechanical Engineering, 2020, 6, .	1.8	4
9	Measurement and Characterization of Nano-Electro-Mechanical Systems Using Laser Interferometry. , 2020, , .		0
10	Full Electrostatic Control of Nanomechanical Buckling. Physical Review Letters, 2020, 124, 046101.	7.8	19
11	Mechanical and Microwave Resonators for Sensing and Sizing Single Cells. , 2020, , 1-24.		1
12	Optimization of Piezoresistive Motion Detection for Ambient NEMS Applications. , 2020, , .		2
13	Nonlinear Nanomechanical Mass Spectrometry at the Single-Nanoparticle Level. Nano Letters, 2019, 19, 3583-3589.	9.1	31
14	Comparison of geometric and drive-induced nonlinearities in doubly clamped,thermoelastic nanoelectromechanical systems. Turkish Journal of Physics, 2019, 43, 264-271.	1.1	0
15	Mass Spectrometry Using Nanomechanical Systems: Beyond the Point-Mass Approximation. Nano Letters, 2018, 18, 1608-1614.	9.1	43
16	Intermodal Coupling as a Probe for Detecting Nanomechanical Modes. Physical Review Applied, 2018, 9, .	3.8	20
17	Piezoresistive silicon nanowire resonators as embedded building blocks in thick SOI. Journal of Micromechanics and Microengineering, 2018, 28, 045006.	2.6	15
18	Towards microwave imaging of cells. Lab on A Chip, 2018, 18, 463-472.	6.0	20

#	ARTICLE	IF	CITATIONS
19	Numerical Analysis of Multidomain Systems: Coupled Nonlinear PDEs and DAEs With Noise. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2018, 37, 1445-1458.	2.7	4
20	Nanomechanical Motion Transducers for Miniaturized Mechanical Systems. Micromachines, 2017, 8, 108.	2.9	32
21	Graphene field effect devices operating in differential circuit configuration. Microelectronic Engineering, 2015, 145, 149-152.	2.4	0
22	Neutral particle mass spectrometry with nanomechanical systems. Nature Communications, 2015, 6, 6482.	12.8	120
23	Inertial imaging with nanomechanical systems. Nature Nanotechnology, 2015, 10, 339-344.	31.5	141
24	Single-protein nanomechanical mass spectrometry in real time. Nature Nanotechnology, 2012, 7, 602-608.	31.5	434
25	Towards single-molecule nanomechanical mass spectrometry. Nature Nanotechnology, 2009, 4, 445-450.	31.5	602