Murat Kaya Yapici

List of Publications by Year
in descending order

53 papers	993 citations	623734 14 h-index	552781 26 g-index
53 all docs	53 docs citations	53 times ranked	1123 citing authors

#	Article	IF	Citations
1	Graphene-clad textile electrodes for electrocardiogram monitoring. Sensors and Actuators B: Chemical, 2015, 221, 1469-1474.	7.8	186
2	Wearable and Flexible Textile Electrodes for Biopotential Signal Monitoring: A review. Electronics (Switzerland), 2019, 8, 479.	3.1	183
3	Intelligent Medical Garments with Graphene-Functionalized Smart-Cloth ECG Sensors. Sensors, 2017, 17, 875.	3.8	120
4	Fabrication and Materials Integration of Flexible Humidity Sensors for Emerging Applications. ACS Omega, 2021, 6, 8744-8753.	3.5	74
5	Electrooculography by Wearable Graphene Textiles. IEEE Sensors Journal, 2018, 18, 8971-8978.	4.7	45
6	Graphene Smart Textile-Based Wearable Eye Movement Sensor for Electro-Ocular Control and Interaction with Objects. Journal of the Electrochemical Society, 2019, 166, B3184-B3193.	2.9	28
7	Flexible Graphene Textile Temperature Sensing RFID Coils Based on Spray Printing. IEEE Sensors Journal, 2021, 21, 26382-26388.	4.7	25
8	A New Wireless Sensor System for Smart Diapers. IEEE Sensors Journal, 2008, 8, 238-239.	4.7	23
9	Toward graphene textiles in wearable eye tracking systems for humanâ€“machine interaction. Beilstein Journal of Nanotechnology, 2021, 12, 180-189.	2.8	23
10	Graphene as a Piezoresistive Material in Strain Sensing Applications. Micromachines, 2022, 13, 119.	2.9	22
11	Permalloy-coated tungsten probe for magnetic manipulation of micro droplets. Microsystem Technologies, 2008, 14, 881-891.	2.0	18
12	Parallel acoustic delay lines for photoacoustic tomography. Journal of Biomedical Optics, 2012, 17, 116019.	2.6	18
13	Simple method for adaptive filtering of motion artifacts in E-textile wearable ECG sensors. , 2015, 2015, 3807-10.		17
14	Integrated On-Chip Transformers: Recent Progress in the Design, Layout, Modeling and Fabrication. Sensors, 2019, 19, 3535.	3.8	15
15	A Hybrid Spiral Microfluidic Platform Coupled with Surface Acoustic Waves for Circulating Tumor Cell Sorting and Separation: A Numerical Study. Biosensors, 2022, 12, 171.	4.7	15
16	Micromagnet-superconducting hybrid structures with directional current flow dependence for persistent current switching. Applied Physics Letters, 2009, 95, 022506.	3.3	13
17	Development and experimental characterization of micromachined electromagnetic probes for biological manipulation and stimulation applications. Sensors and Actuators A: Physical, 2008, 144, 213-221.	4.1	12
18	Wearable graphene textile-enabled EOG sensing. , 2017, , .		12

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19	Alternating magnetic field plate for enhanced magnetofection of iron oxide nanoparticle conjugated nucleic acids. Journal of Magnetism and Magnetic Materials, 2019, 469, 598-605.	2.3	12
20	Wearable Graphene Nanotextile Embedded Smart Armband for Cardiac Monitoring. , 2018, , .		11
21	Surface Electromyography With Wearable Graphene Textiles. IEEE Sensors Journal, 2021, 21, 14397-14406.	4.7	11
22	Gel-Free Wearable Electroencephalography (EEG) with Soft Graphene Textiles. , 2021, , .		11
23	UV-LED exposure system for low-cost photolithography. Proceedings of SPIE, 2014, , .	0.8	10
24	Vortex Pinning by an Inhomogeneous Magnetic Field. Journal of Superconductivity and Novel Magnetism, 2010, 23, 1079-1082.	1.8	9
25	Graphene-coated wearable textiles for EOG-based human-computer interaction. , 2018, , .		9
26	Simulation of Dielectrophoresis based Separation of Red Blood Cells (RBC) from Bacteria Cells. , 2020, , .		8
27	Microfabrication of colloidal scanning probes with controllable tip radii of curvature. Journal of Micromechanics and Microengineering, 2009, 19, 105021.	2.6	7
28	Energy efficient system-on-chip architecture for non-invasive mobile monitoring of diabetics. , 2013, , .		7
29	Muscular Activity Monitoring and Surface Electromyography (sEMG) with Graphene Textiles. , 2019, , .		7
30	A novel micromachining technique for the batch fabrication of scanning probe arrays with precisely defined tip contact areas. Journal of Micromechanics and Microengineering, 2008, 18, 085015.	2.6	6
31	High-Transmission-Efficiency and Side-Viewing Micro OIDRS Probe for Fast and Minimally Invasive Tumor Margin Detection. IEEE Sensors Journal, 2011, 11, 891-896.	4.7	6
32	Intrinsic stress-induced bending as a platform technology for controlled self-assembly of high-Q on-chip RF inductors. Journal of Micromechanics and Microengineering, 2019, 29, 064002.	2.6	6
33	Smart Armband with Graphene Textile Electrodes for EMG-based Muscle Fatigue Monitoring. , 2021, , .		6
34	Gold-coated scanning probes for direct â€˜writeâ€™ of sub-micron metallic structures. Micro and Nano Letters, 2008, 3, 90.	1.3	5
35	Flexible Graphene Textile RFID Tags Based on Spray, Dispense and Contact Printing. , 2020, , .		3
36	A 28 GHz $2imes 2$ Antenna Array with 10 Beams Using Passive Beamforming Network. , 2020, , .		3

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37	UV LED lithography with digitally tunable exposure dose. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2014, 13, 043004.	0.9	2
38	Experimental Characterization of Micromachined Electromagnetic Probes using Scanning Hall Probe Microscopy. , 2007, , .		1
39	Self-assembly of high performance on-chip RF-MEMS inductors using internal stress. , 2018, , .		1
40	Wavy Cantilever RF-MEMS Switch based on Bidirectional Control of Intrinsic Stress. , 2020, , .		1
41	An ISFET Sensor-Integrated Micromixer for pH Measurements. , 2020, , .		1
42	On-chip measurement of pH using a microcantilever: a biomimetic design approach. , 2021, , .		1
43	Development of a Universal Wireless Sensor System for Automated Environmental Event Monitoring. , 2007, , .		0
44	Mechanisms of formation of nanostructures with atomic force microscopy. , 2007, , .		0
45	Controllable Direct "Writing" of Gold Nanostructures for Integrated Nanobiosensor Applications. , 2007, , .		0
46	A Novel Scanning Probe Array with Multiple Tip Sharpness for Variable-Resolution Scanning Probe Lithography Applications. , 2008, , .		0
47	High-efficiency and side-viewing micro fiber optic probe for in-vivo diffuse reflectance measurements of human epithelial tissues. , 2009, 2009, 757-60.		0
48	Formation of 1-D Nanostructures Using Atomic Force Microscope. IEEE Nanotechnology Magazine, 2011, 10, 310-318.	2.0	0
49	Parallel acoustic delay lines for photoacoustic tomography. , 2013, , .		0
50	Design and Optimization of Cantilever Based RF-MEMS Shunt Switch for 5G Applications. , 2021, , .		0
51	Elastomeric Stamp-Assisted Exfoliation and Transfer of Patterned Graphene Layers. , 2021, , .		0
52	A 28 GHz 2 Ã— 2 Antenna Array with 10 Beams Using Passive SPDT Switch Beamforming Network. Sensors, 2021, 21, 7138.	3.8	0
53	Strain Sensing Graphene Functionalized PET Films based on a Facile Dip Coating Approach. , 2021, , .		0