

#	Document Type	Authors	Title	Year	Source Title	DOI	Publisher	Conference Name	Conference Date
1	Article	Tarım E.A.; Erimez B.; Degirmenci M.; Cumhuri Tekin H.	A Wearable Device Integrated with Deep Learning-Based Algorithms for the Analysis of Breath Patterns	2023	Advanced Intelligent Systems	10.1002/aisy.202300174	John Wiley and Sons Inc		
2	Article	Tarım E.A.; Oksuz C.; Karakuzu B.; Appak O.; Sayiner A.A.; Tekin H.C.	Electromechanical RT-LAMP device for portable SARS-CoV-2 detection	2023	Talanta	10.1016/j.talanta.2022.124190	Elsevier B.V.		
3	Article	Öksüzöğlü R.M.; Altan H.; Abdüsselamoğlu M.S.; Özkan Ö.B.; Bayram Y.; Çakar E.S.	The sub-terahertz region absorption of sputter deposited nanoscale TiAlV thin films	2023	Optical Materials	10.1016/j.optmat.2022.113305	Elsevier B.V.		
4	Article	Önen S.; Atik A.C.; Gizer M.; Köse S.; Yaman Ö.; Kûlah H.; Korkusuz P.	A pumpless monolayer microfluidic device based on mesenchymal stem cell-conditioned medium promotes neonatal mouse in vitro spermatogenesis	2023	Stem Cell Research and Therapy	10.1186/s13287-023-03356-x	BioMed Central Ltd		
5	Article	Kolay İ.; Asil D.	PbSe nanorod-quantum dot bulk nano-heterojunction solar cells generating multiple excitons with record photo conversion efficiencies	2023	Materials Today Communications	10.1016/j.mtcomm.2023.106064	Elsevier Ltd		
6	Article	Sen-Dogan B.; Yıldırım E.; Sahin S.; Ozgur E.; Zorlu O.; Kûlah H.	Design of a microfluidic device for immunoaffinity-based isolation of circulating tumor cells with minimal clogging	2023	Sensors and Actuators Reports	10.1016/j.snr.2023.100169	Elsevier B.V.		
7	Article	Erdogan R.T.; Alkhaled M.; Kaynak B.E.; Alhmoud H.; Pisheh H.S.; Kelleci M.; Karakurt I.; Yanik C.; Şen Z.B.; Sari B.; Yagci A.M.; Özkul A.; Hanay M.S.	Atmospheric Pressure Mass Spectrometry of Single Viruses and Nanoparticles by Nanoelectromechanical Systems	2022	ACS Nano	10.1021/acsnano.1c08423	American Chemical Society		
8	Article	Tevek A.; Topuz B.; Akbay E.; Aydin H.M.	Surface channel patterned and endothelialized poly(glycerol sebacate) based elastomers	2022	Journal of Biomaterials Applications	10.1177/08853282221085798	SAGE Publications Ltd		
9	Article	Tutsoy O.; Tanrikulu M.Y.	Priority and age specific vaccination algorithm for the pandemic diseases: a comprehensive parametric prediction model	2022	BMC Medical Informatics and Decision Making	10.1186/s12911-021-01720-6	BioMed Central Ltd		
10	Article	Bozylı I.; Gokcen D.	Determining electrical percolation threshold of randomly distributed conductor materials in polymer composites via pathfinding algorithms	2022	Composites Science and Technology	10.1016/j.compscitech.2022.109404	Elsevier Ltd		
11	Article	Karakuzu B.; Tarım E.A.; Oksuz C.; Tekin H.C.	An Electromechanical Lab-on-a-Chip Platform for Colorimetric Detection of Serum Creatinine	2022	ACS Omega	10.1021/acsomega.2c03354	American Chemical Society		
12	Article	Sozak A.; Simsek E.; Yelboga T.; Gungor A.; Ballı F.; Azgin K.	A Thermal and Electro-Magnetic Hybrid MOEMS Microscanner With Integrated Spatial Light Modulation and Metalems for Resolution Enhancement of Infrared Imaging Systems	2022	IEEE Sensors Journal	10.1109/JSEN.2022.3210043	Institute of Electrical and Electronics Engineers Inc.		
13	Article	Atik B.; Dirican E.; Demirörs O.; Altan H.; Esentürk O.; Yıldırım M.; Akın T.	Tuning structural, electrical, and THz optical properties of VxOy films with W-doping	2022	Journal of Alloys and Compounds	10.1016/j.jallcom.2022.163922	Elsevier Ltd		
14	Article	Sekertekin Y.; Gokcen D.	Composites of Functionalized Multi-Walled Carbon Nanotube and Sodium Alginate for Tactile Sensing Applications †	2022	Engineering Proceedings	10.3390/ecs-9-13349	MDPI		
15	Article	Koyuncuoğlu A.; Işık Akçakaya D.; Şardan Sukas Ö.; Kûlah H.	Wet etching of platinum (Pt) electrodes for piezoelectric transducers using a thick photoresist mask	2022	Micro and Nano Engineering	10.1016/j.mne.2022.100153	Elsevier B.V.		
16	Article	Dirican E.; Yağcı A.M.; Tanrikulu M.Y.; Öksüzöğlü R.M.	The evolution of nanoscale pores with post-annealing and the structure-electrical property correlation in vanadium oxide thin films	2022	Thin Solid Films	10.1016/j.tsf.2021.139078	Elsevier B.V.		
17	Article	Çağlayan Arslan Z.; Demircan Yalçın Y.; Kûlah H.	Label-free enrichment of MCF7 breast cancer cells from leukocytes using continuous flow dielectrophoresis	2022	Electrophoresis	10.1002/elps.202100318	John Wiley and Sons Inc		
18	Article	Almassri M.; Hostut M.; Turkoglu A.; Ergun Y.	Voltage tunable terahertz QWIP containing asymmetric step-like coupled double quantum wells	2022	Optical and Quantum Electronics	10.1007/s11082-022-03517-x	Springer		
19	Article	Tanrikulu M.Y.	Pixel level vacuum packaging for single layer microbolometer detectors with on pixel lens	2022	Journal of Electrical Engineering	10.2478/jee-2022-0027	De Gruyter Open Ltd		
20	Article	Yuksel M.B.; Koyuncuoğlu A.; Kûlah H.	Thin-Film PZT-Based Multi-Channel Acoustic MEMS Transducer for Cochlear Implant Applications	2022	IEEE Sensors Journal	10.1109/JSEN.2021.3130953	Institute of Electrical and Electronics Engineers Inc.		

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21	Article	Kusoglu-Sarikaya C.; Akbar, D.; Altan H.	Response of a Glow Discharge Detector to Far Infrared Radiation	2022	IEEE Transactions on Plasma Science	10.1109/TPS.2022.3219817	Institute of Electrical and Electronics Engineers Inc.		
22	Article	Incecim S.; Sarac A.; Erdil E.; Cagirtekin A. O.; Acar S.	Effect of Post-Annealing Treatment on the Structural, Optical, and Electrical Properties of V2O5 Thin Films	2021	Gazi University Journal of Science PART A: ENGINEERING AND INNOVATION				
23	Article	Ciftci B.; Chamanian S.; Koyuncuoglu A.; Muhtaroglu A.; Kulah H.	A Low-Profile Autonomous Interface Circuit for Piezoelectric Micro-Power Generators	2021	IEEE Transactions on Circuits and Systems I: Regular Papers	10.1109/TCSI.2021.3053503	Institute of Electrical and Electronics Engineers Inc.		
24	Article	Akel K.; Hoştut M.; Akin T.; Ergün Y.	Interband optical absorption obtained by pseudopotential method for type-II InAs/GaSb SL photodetectors	2021	Journal of Physics D: Applied Physics	10.1088/1361-6463/abe3ae	IOP Publishing Ltd		
25	Article	Hostut M.; Ergun Y.	Quantum efficiency contributions for type-II InAs/GaSb SL photodetectors	2021	Physica E: Low-Dimensional Systems and Nanostructures	10.1016/j.physe.2021.114721	Elsevier B.V.		
26	Article	Torunbalci M.M.; Gavcar H.D.; Yesil F.; Alper S.E.; Akin T.	An All-Silicon Process Platform for Wafer-Level Vacuum Packaged MEMS Devices	2021	IEEE Sensors Journal	10.1109/JSEN.2021.3073928	Institute of Electrical and Electronics Engineers Inc.		
27	Article	Engur Y.; Yigit H.A.; Kulah H.	13.56 MHz Triple Mode Rectifier Circuit with Extended Coupling Range for Wirelessly Powered Implantable Medical Devices	2021	IEEE Transactions on Biomedical Circuits and Systems	10.1109/TBCAS.2020.3047551	Institute of Electrical and Electronics Engineers Inc.		
28	Article	Demircan Yalçın Y.; Töral T.B.; Sukas S.; Yıldırım E.; Zorlu Ö.; Gündüz U.; Külah H.	A microfluidic device enabling drug resistance analysis of leukemia cells via coupled dielectrophoretic detection and impedimetric counting	2021	Scientific Reports	10.1038/s41598-021-92647-5	Nature Research		
29	Article	Aya A.M.N.; Tevlek A.; Almemar M.; Gökçen D.; Aydin H.M.	Fabrication and characterization of carbon aerogel/poly(glycerol-sebacate) patches for cardiac tissue engineering	2021	Biomedical Materials (Bristol)	10.1088/1748-605X/ac2dd3	IOP Publishing Ltd		
30	Article	Bozyel I.; Keser Y.I.; Gokcen D.	Triple mode and multi-purpose flexible sensor fabrication based on carbon black and thermoplastic polyurethane composite with propolis	2021	Sensors and Actuators A: Physical	10.1016/j.sna.2021.113056	Elsevier B.V.		
31	Article	Delikoyun K.; Yaman S.; Yilmaz E.; Sarigil O.; Anil-İnevi M.; Telli K.; Yalcin-Ozaysal O.; Ozcivici E.; Tekin H.C.	HologLev: A Hybrid Magnetic Levitation Platform Integrated with Lensless Holographic Microscopy for Density-Based Cell Analysis	2021	ACS Sensors	10.1021/acssensors.0c02587	American Chemical Society		
32	Article	Yıldırım O.; Bozyel I.; Saka K.; Kayikcioglu T.; Gokcen D.	Polydimethylsiloxane-based capacitive motion sensor and its read-out circuit	2021	International Journal of Circuit Theory and Applications	10.1002/cta.3009	John Wiley and Sons Ltd		
33	Article	Ciftci B.; Chamanian S.; Koyuncuoglu A.; Muhtaroglu A.; Kulah H.	A Low-Profile Autonomous Interface Circuit for Piezoelectric Micro-Power Generators	2021	IEEE Transactions on Circuits and Systems I: Regular Papers	10.1109/TCSI.2021.3053503	Institute of Electrical and Electronics Engineers Inc.		
34	Article	Karakuzu B.; Gulmez Y.; Tekin H.C.	Absorbance-based detection of arsenic in a microfluidic system with push-and-pull pumping	2021	Microelectronic Engineering	10.1016/j.mee.2021.111583	Elsevier B.V.		
35	Article	Doner T.; Gokcen D.	FPGA-based infrared image deblurring using angular position of IR detector	2021	Visual Computer	10.1007/s00371-020-01961-y	Springer Science and Business Media Deutschland GmbH		
36	Article	Chamanian S.; Ciftci B.; Muhtaroglu A.; Kulah H.	A Self-Powered and Area Efficient SSHI Rectifier for Piezoelectric Harvesters	2021	IEEE Access	10.1109/ACCESS.2021.3107365	Institute of Electrical and Electronics Engineers Inc.		
37	Article	Temel O.; Kalay Y.E.; Akin T.	Wafer-Level Lowerature Solid-Liquid Inter-Diffusion Bonding with Thin Au-Sn Layers for MEMS Encapsulation	2021	Journal of Microelectromechanical Systems	10.1109/JMEMS.2020.3040039	Institute of Electrical and Electronics Engineers Inc.		

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38	Article	Yigit H.A.; Ulusan H.; Koc M.; Yuksel M.B.; Chamanian S.; Kulah H.	Single Supply PWM Fully Implantable Cochlear Implant Interface Circuit with Active Charge Balancing	2021	IEEE Access	10.1109/ACCESS.2021.3070107	Institute of Electrical and Electronics Engineers Inc.		
39	Article	Çağlayan Z.; Demircan Yalçın Y.; Kûlah H.	Examination of the dielectrophoretic spectra of MCF7 breast cancer cells and leukocytes	2020	Electrophoresis	10.1002/elps.201900374	Wiley-VCH Verlag		
40	Article	Cetin D.; Okan M.; Bat E.; Kulah H.	A comparative study on EpCAM antibody immobilization on gold surfaces and microfluidic channels for the detection of circulating tumor cells	2020	Colloids and Surfaces B: Biointerfaces	10.1016/j.colsurfb.2020.110808	Elsevier B.V.		
41	Article	Orhan E.; Yuksel M.; Ari A.B.; Yanik C.; Hatipoglu U.; Yağci A.M.; Hanay M.S.	Performance of Nano-Electromechanical Systems as NanopMakale Position Sensors	2020	Frontiers in Mechanical Engineering	10.3389/fmech.2020.00037	Frontiers Media S.A.		
42	Article	Gul E.; Gokcen D.	Active Memristive Layer Deposition via Mn(II)-Assisted Anodic Oxidation of Titanium	2020	ECS Journal of Solid State Science and Technology	10.1149/2162-8777/ab9519	Institute of Physics Publishing		
43	Article	Kaya O.; Kose T.; Azgin K.	A Dual-Resonator Temperature Sensing Approach with Time Base Error Suppression	2020	IEEE Sensors Journal	10.1109/JSEN.2019.2943289	Institute of Electrical and Electronics Engineers Inc.		
44	Article	G. Demirhan; T. Akin	Resonance-Based Temperature Sensors using a Wafer Level Vacuum Packaged SOI MEMS Process	2020	Advanced Materials Letters	10.5185/amlett.2020.011462	International Association of Advanced Materials		
45	Article	Tanrikulu M.Y.; Yildizak C.; Okyay A.K.; Akar O.; Saraç A.; Akin T.	Realization of Single Layer Microbolometer Detector Pixel Using ZnO Material	2020	IEEE Sensors Journal	10.1109/JSEN.2020.2992991	Institute of Electrical and Electronics Engineers Inc.		
46	Article	Sekertekin Y.; Bozyel I.; Gokcen D.	A flexible and low-cost tactile sensor produced by screen printing of carbon black/PVA composite on cellulose paper	2020	Sensors (Switzerland)	10.3390/s20102908	MDPI AG		
47	Article	Atik A.C.; Özkan M.D.; Özgür E.; Kûlah H.; Yildirim E.	Modeling and fabrication of electrostatically actuated diaphragms for on-chip valving of MEMS-compatible microfluidic systems	2020	Journal of Micromechanics and Microengineering	10.1088/1361-6439/aba16f	Institute of Physics Publishing		
48	Article	Çağlayan Z.; Demircan Yalçın Y.; Kûlah H.	Examination of the dielectrophoretic spectra of MCF7 breast cancer cells and leukocytes	2020	Electrophoresis	10.1002/elps.201900374	Wiley-VCH Verlag		
49	Article	Orhan E.; Yuksel M.; Ari A.B.; Yanik C.; Hatipoglu U.; Yağci A.M.; Hanay M.S.	Performance of Nano-Electromechanical Systems as NanopMakale Position Sensors	2020	Frontiers in Mechanical Engineering	10.3389/fmech.2020.00037	Frontiers Media S.A.		
50	Article	Yaman S.; Tekin H.C.	Magnetic Susceptibility-Based Protein Detection Using Magnetic Levitation	2020	Analytical Chemistry	10.1021/acs.analchem.0c02479	American Chemical Society		
51	Article	Şen-Doğan B.; Okan M.; Afşar-Erkâl N.; Özgür E.; Zorlu O.; Kûlah H.	Enhancement of the start-up time for microliter-scale microbial fuel cells (µMFCs) via the surface modification of gold electrodes	2020	Micromachines	10.3390/mi11070703	MDPI AG		
52	Article	Cetin D.; Okan M.; Bat E.; Kulah H.	A comparative study on EpCAM antibody immobilization on gold surfaces and microfluidic channels for the detection of circulating tumor cells	2020	Colloids and Surfaces B: Biointerfaces	10.1016/j.colsurfb.2020.110808	Elsevier B.V.		
53	Article	Chamanian S.; Muhtaroglu A.; Kulah H.	A self-adapting synchronized-switch interface circuit for piezoelectric energy harvesters	2020	IEEE Transactions on Power Electronics	10.1109/TPEL.2019.2910410	Institute of Electrical and Electronics Engineers Inc.		
54	Article	Kara Aydemir A.G.; Can G.	Educational technology research trends in Turkey from a critical perspective: An analysis of postgraduate theses	2019	British Journal of Educational Technology	10.1111/bjet.12780	Blackwell Publishing Ltd		
55	Article	Comar I.; Cetintepe C.; Sagioglu E.; Demir S.; Akin T.	Development and Modeling of a Wafer-Level BCB Packaging Method for Capacitive RF MEMS Switches	2019	Journal of Microelectromechanical Systems	10.1109/JMEMS.2019.2912745	Institute of Electrical and Electronics Engineers Inc.		
56	Article	Chamanian S.; Ulusan H.; Koyuncuoglu A.; Muhtaroglu A.; Kulah H.	An Adaptable Interface Circuit with Multistage Energy Extraction for Low-Power Piezoelectric Energy Harvesting MEMS	2019	IEEE Transactions on Power Electronics	10.1109/TPEL.2018.2841510	Institute of Electrical and Electronics Engineers Inc.		

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57	Article	Chamanian S.; Baghaee S.; Ulsan H.; Zorlu O.; Uysal-Biyikoglu E.; Kulah H.	Implementation of Energy-Neutral Operation on Vibration Energy Harvesting WSN	2019	IEEE Sensors Journal	10.1109/JSEN.2019.2890902	Institute of Electrical and Electronics Engineers Inc.		
58	Article	Ulsan H.; Chamanian S.; Ilik B.; Muhtaroglu A.; Kulah H.	Fully Implantable Cochlear Implant Interface Electronics with 51.2- $\mu$ W Front-End Circuit	2019	IEEE Transactions on Very Large Scale Integration (VLSI) Systems	10.1109/TVLSI.2019.2898873	Institute of Electrical and Electronics Engineers Inc.		
59	Article	Chamanian S.; Ciftci B.; Ulsan H.; Muhtaroglu A.; Kulah H.	Power-Efficient Hybrid Energy Harvesting System for Harnessing Ambient Vibrations	2019	IEEE Transactions on Circuits and Systems I: Regular Papers	10.1109/TCSI.2019.2900574	Institute of Electrical and Electronics Engineers Inc.		
60	Article	Hostut M.; Tansel T.; Kilic A.; Akin T.; Ergun Y.	The detailed analysis of wavefunction overlaps for InAs/AlSb/GaSb based N-structure type-II SL pin photodetectors	2019	Physica Scripta	10.1088/1402-4896/ab13f9	Institute of Physics Publishing		
61	Article	Demircan Yalçın Y.; Sukas S.; Töral T.B.; Gündüz U.; Kùlah H.	Exploring the relationship between cytoplasmic ion content variation and multidrug resistance in cancer cells via ion-release based impedance spectroscopy	2019	Sensors and Actuators, B: Chemical	10.1016/j.snb.2019.03.084	Elsevier B.V.		
62	Article	Beyaz M.I.; Habibiabad S.; Yıldız H.; Goreke U.; Azgin K.	A turbine-based MEMS sensor for spirometry with wearable devices	2019	IEEE Sensors Journal	10.1109/JSEN.2019.2919599	Institute of Electrical and Electronics Engineers Inc.		
63	Article	Cetin R.; Akin T.	Numerical and Experimental Investigation into LWIR Transmission Performance of Complementary Silicon Subwavelength Antireflection Grating (SWARG) Structures	2019	Scientific Reports	10.1038/s41598-019-41107-2	Nature Publishing Group		
64	Article	Ulsan H.; Muhtaroglu A.; Kulah H.	A Sub-500 $\mu$ W Interface Electronics for Bionic Ears	2019	IEEE Access	10.1109/ACCESS.2019.2940744	Institute of Electrical and Electronics Engineers Inc.		
65	Article	Uluşan H.; Chamanian S.; Pathirana W.P.M.R.; Zorlu Ö.; Muhtaroglu A.; Kulah H.	A triple hybrid micropower generator with simultaneous multi-mode energy harvesting	2018	Smart Materials and Structures	10.1088/1361-665X/aa8a09	Institute of Physics Publishing		
66	Article	Ates H.C.; Ozgur E.; Kulah H.	Comparative study on antibody immobilization strategies for efficient circulating tumor cell capture	2018	Biointerphases	10.1116/1.5023456	American Institute of Physics Inc.		
67	Article	Ilik B.; Koyuncuoğlu A.; Şardan-Sukas Ö.; Kùlah H.	Thin film piezoelectric acoustic transducer for fully implantable cochlear implants	2018	Sensors and Actuators, A: Physical	10.1016/j.sna.2018.07.020	Elsevier B.V.		
68	Article	Kilic A.; Tansel T.; Hostut M.; Elagoz S.; Ergun Y.	The investigation of quantum efficiency constituents of InAs/AlSb/GaSb based N structure type-II SL photodetectors with InAlAs interface	2018	Semiconductor Science and Technology	10.1088/1361-6641/aad264	Institute of Physics Publishing		
69	Article	Yasar O.; Ulsan H.; Zorlu O.; Sardan-Sukas O.; Kulah H.	Optimization of AA-Battery Sized Electromagnetic Energy Harvesters: Reducing the Resonance Frequency Using a Non-Magnetic Inertial Mass	2018	IEEE Sensors Journal	10.1109/JSEN.2018.2819194	Institute of Electrical and Electronics Engineers Inc.		
70	Article	Aydin E.; Gökçe F.; Kangül M.; Zorlu Ö.; Kùlah H.	A second harmonic based resonance characterization method for MEMS electrostatic resonators	2018	Sensors and Actuators, A: Physical	10.1016/j.sna.2018.03.013	Elsevier B.V.		
71	Article	Kangül M.; Aydın E.; Gökçe F.; Zorlu Ö.; Kùlah H.	Analysis and elimination of the capacitive feedthrough current on electrostatically actuated and sensed resonance-based MEMS sensors	2017	Journal of Microelectromechanical Systems	10.1109/JMEMS.2017.2729624	Institute of Electrical and Electronics Engineers Inc.		
72	Article	Demirel K.; Yazgan E.; Demir Ş.; Akin T.	A folded leg Ka-band RF MEMS shunt switch with amorphous silicon (a-Si) sacrificial layer	2017	Microsystem Technologies	10.1007/s00542-016-2892-5	Springer Verlag		
73	Article	Gharehbaghi K.; Kocer F.; Kulah H.	Optimization of Power Conversion Efficiency in Threshold Self-Compensated UHF Rectifiers With Charge Conservation Principle	2017	IEEE Transactions on Circuits and Systems I: Regular Papers	10.1109/TCSI.2017.2695650	Institute of Electrical and Electronics Engineers Inc.		
74	Article	Uluşan H.; Zorlu Ö.; Muhtaroglu A.; Kùlah H.	Highly Integrated 3 v Supply Electronics for Electromagnetic Energy Harvesters with Minimum 0.4 Vpeak Input	2017	IEEE Transactions on Industrial Electronics	10.1109/TIE.2017.2677324	Institute of Electrical and Electronics Engineers Inc.		
75	Article	Gharehbaghi K.; Zorlu Ö.; Koçer F.; Kùlah H.	Threshold compensated UHF rectifier with local self-calibrator	2017	IEEE Microwave and Wireless Components Letters	10.1109/LMWC.2017.2701326	Institute of Electrical and Electronics Engineers Inc.		

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76	Article	Goreke U.; Habibiabad S.; Azgin K.; Dogrusoz Y.S.; Beyaz M.I.	The Development and Performance Characterization of Turbine Prototypes for a MEMS Spirometer	2016	IEEE Sensors Journal	10.1109/JSEN.2015.2488104	Institute of Electrical and Electronics Engineers Inc.		
77	Article	Demirel K.; Yazgan E.; Demir S.; Akin T.	A New Temperature-Tolerant RF MEMS Switch Structure Design and Fabrication for Ka-Band Applications	2016	Journal of Microelectromechanical Systems	10.1109/JMEMS.2015.2485659	Institute of Electrical and Electronics Engineers Inc.		
78	Article	Pala S.; Azgin Ki.	A MEMS square Chladni plate resonator	2016	Journal of Micromechanics and Microengineering	10.1088/0960-1317/26/10/105016	Institute of Physics Publishing		
79	Article	Gharehbaghi K.; Zorlu Ö.; Koçer F.; Kûlah H.	Modelling and efficiency optimisation of UHF Dickson rectifiers	2016	IET Circuits, Devices and Systems	10.1049/iet-cds.2015.0323	Institution of Engineering and Technology		
80	Article	Kose T.; Azgin K.; Akin T.	Design and fabrication of a high performance resonant MEMS temperature sensor	2016	Journal of Micromechanics and Microengineering	10.1088/0960-1317/26/4/045012	Institute of Physics Publishing		
81	Article	Aydemir A.; Terzioğlu Y.; Akin T.	A new design and a fabrication approach to realize a high performance three axes capacitive MEMS accelerometer	2016	Sensors and Actuators, A: Physical	10.1016/j.sna.2016.04.007	Elsevier B.V.		
82	Article	Chamanian S.; Uluşan H.; Zorlu Ö.; Baghaee S.; Uysal-Biyikoglu E.; Kûlah H.	Wearable battery-less wireless sensor network with electromagnetic energy harvesting system	2016	Sensors and Actuators, A: Physical	10.1016/j.sna.2016.07.020	Elsevier B.V.		
83	Article	Torunbalci M.M.; Alper S.E.; Akin T.	Wafer level hermetic sealing of MEMS devices with vertical feedthroughs using anodic bonding	2015	Sensors and Actuators, A: Physical	10.1016/j.sna.2015.01.034	Elsevier		
84	Article	Torunbalci M.M.; Alper S.E.; Akin T.	Advanced MEMS process for wafer level hermetic encapsulation of MEMS devices using SOI cap wafers with vertical feedthroughs	2015	Journal of Microelectromechanical Systems	10.1109/JMEMS.2015.2406341	Institute of Electrical and Electronics Engineers Inc.		
85	Article	Demirel K.; Yazgan E.; Demir Ş.; Akin T.	Cantilever type radio frequency microelectromechanical systems shunt capacitive switch design and fabrication	2015	Journal of Micro/Nanolithography, MEMS, and MOEMS	10.1117/1.JMM.14.3.035005	SPIE		
86	Article	Tez S.; Aykutlu U.; Torunbalci M.M.; Akin T.	A Bulk-Micromachined Three-Axis Capacitive MEMS Accelerometer on a Single Die	2015	Journal of Microelectromechanical Systems	10.1109/JMEMS.2015.2451079	Institute of Electrical and Electronics Engineers Inc.		
87	Article	Torunbalci M.M.; Alper S.E.; Akin T.	A method for wafer level hermetic packaging of SOI-MEMS devices with embedded vertical feedthroughs using advanced MEMS process	2015	Journal of Micromechanics and Microengineering	10.1088/0960-1317/25/12/125030	Institute of Physics Publishing		
88	Article	Uluşan H.; Gharehbaghi K.; Zorlu O.; Muhtarollu A.; Kûlah H.	A fully integrated and battery-free interface for low-voltage electromagnetic energy harvesters	2015	IEEE Transactions on Power Electronics	10.1109/TPEL.2014.2344915	Institute of Electrical and Electronics Engineers Inc.		
89	Article	Bahrieh G.; Özgür E.; Koyuncuoğlu A.; Erdem M.; Gündüz U.; Kûlah H.	Characterization of the distribution of rotational torque on electrorotation chips with 3D electrodes	2015	Electrophoresis	10.1002/elps.201500061	Wiley-VCH Verlag		
90	Article	Demircan Y.; Koyuncuoğlu A.; Erdem M.; Özgür E.; Gündüz U.; Kûlah H.	Label-free detection of multidrug resistance in K562 cells through isolated 3D-electrode dielectrophoresis	2015	Electrophoresis	10.1002/elps.201400391	Wiley-VCH Verlag		
91	Article	Erdil E.; Topalli K.; Esmailzad N.S.; Zorlu O.; Kûlah H.; Aydin Civi O.	Reconfigurable nested ring-split ring transmitarray unit cell employing the element rotation method by microfluidics	2015	IEEE Transactions on Antennas and Propagation	10.1109/TAP.2014.2387424	Institute of Electrical and Electronics Engineers Inc.		
92	Article	Sonmezoglu S.; Alper S.E.; Akin T.	An automatically mode-matched MEMS gyroscope with wide and tunable bandwidth	2014	Journal of Microelectromechanical Systems	10.1109/JMEMS.2014.2299234	Institute of Electrical and Electronics Engineers Inc.		
93	Article	Comart I.; Topalli K.; Demir S.; Akin T.	Microwave characterization of a wafer-level packaging approach for RF MEMS devices using glass frit bonding	2014	IEEE Sensors Journal	10.1109/JSEN.2014.2308256	Institute of Electrical and Electronics Engineers Inc.		
94	Article	Koydemir H.C.; Kûlah H.; Özgen C.	Solvent compatibility of parylene c film Layer	2014	Journal of Microelectromechanical Systems	10.1109/JMEMS.2013.2273032	Institute of Electrical and Electronics Engineers Inc.		

#	Document Type	Authors	Title	Year	Source Title	DOI	Publisher	Conference Name	Conference Date
95	Article	Torul H.; Çiftçi H.; Dudak F.C.; Adigüzel Y.; Kulah H.; Boyacı I.H.; Tamer U.	Glucose determination based on a two component self-assembled monolayer functionalized surface-enhanced Raman spectroscopy (SERS) probe	2014	Analytical Methods	10.1039/c4ay00559g	Royal Society of Chemistry		
96	Article	Beker L.; Zorlu Ö.; Kùlah H.	A parylene coating based room temperature wafer-level attachment method for MEMS integration with zero applied force	2014	Sensors and Actuators, A: Physical	10.1016/j.sna.2013.08.003	Elsevier		
97	Article	Adiguzel Y.; Kùlah H.	Studies on visual detection and surface modification testing of glass microfiber filter paper based biosensor	2014	Biosensors and Bioelectronics	10.1016/j.bios.2013.10.042	Elsevier Ltd		
98	Article	Battal E.; Bolat S.; Tanrikulu M.Y.; Okyay A.K.; Akin T.	Atomic-layer-deposited zinc oxide as tunable uncooled infrared microbolometer material	2014	Physica Status Solidi (A) Applications and Materials Science	10.1002/pssa.201431195	Wiley-VCH Verlag		
99	Article	Sönmez U.; Kùlah H.; Akin T.	A $\Sigma\Delta$ micro accelerometer with 6 $\mu\text{g}/\text{VHz}$ resolution and 130 dB dynamic range	2014	Analog Integrated Circuits and Signal Processing	10.1007/s10470-014-0393-y	Kluwer Academic Publishers		
100	Article	Musayev J.; Adiguzel Y.; Kùlah H.; Eminoglu S.; Akin T.	Label-free DNA detection using a charge sensitive CMOS microarray sensor chip	2014	IEEE Sensors Journal	10.1109/JSEN.2014.2301693	Institute of Electrical and Electronics Engineers Inc.		
101	Article	Bahrieh G.; Erdem M.; Özgür E.; Gündüz U.; Kùlah H.	Assessment of effects of multi drug resistance on dielectric properties of K562 leukemic cells using electrorotation	2014	RSC Advances	10.1039/c4ra04873c	Royal Society of Chemistry		
102	Article	Musayev J.; Altiner C.; Adiguzel Y.; Kùlah H.; Eminoglu S.; Akin T.	Capturing and detection of MCF-7 breast cancer cells with a CMOS image sensor	2014	Sensors and Actuators, A: Physical	10.1016/j.sna.2013.12.003	Elsevier B.V.		
103	Article	Koydemir H.C.; Kùlah H.; Alp A.; Uner A.H.; Hascelik G.; Ozgen C.	A fully microfabricated electrochemical sensor and its implementation for detection of methicillin resistance in Staphylococcus aureus	2014	IEEE Sensors Journal	10.1109/JSEN.2014.2305152	Institute of Electrical and Electronics Engineers Inc.		
104	Article	Chamanian S.; Baghaee S.; Ulsan H.; Zorlu O.; Kùlah H.; Uysal-Biyikoglu E.	Powering-up wireless sensor nodes utilizing rechargeable batteries and an electromagnetic vibration energy harvesting system	2014	Energies	10.3390/en7106323	MDPI AG		
105	Article	Unlu M.; Demir S.; Akin T.	A 15-40-GHz frequency reconfigurable RF MEMS phase shifter	2013	IEEE Transactions on Microwave Theory and Techniques	10.1109/TMTT.2013.2271995	Institute of Electrical and Electronics Engineers Inc.		
106	Article	Aydin O.; Akin T.	A bulk-micromachined fully differential MEMS accelerometer with split interdigitated fingers	2013	IEEE Sensors Journal	10.1109/JSEN.2013.2264667	Institute of Electrical and Electronics Engineers Inc.		
107	Article	Zorlu Ö.; Kùlah H.	A MEMS-based energy harvester for generating energy from non-resonant environmental vibrations	2013	Sensors and Actuators, A: Physical	10.1016/j.sna.2013.01.032	Elsevier B.V.		
108	Article	Tatar E.; Alper S.E.; Akin T.	Quadrature-error compensation and corresponding effects on the performance of fully decoupled MEMS gyroscopes	2012	Journal of Microelectromechanical Systems	10.1109/JMEMS.2012.2189356	Institute of Electrical and Electronics Engineers Inc.		
109	Article	Aydemir A.; Akin T.	Prevention of sidewall redeposition of etched byproducts in the dry Au etch process	2012	Journal of Micromechanics and Microengineering	10.1088/0960-1317/22/7/074004	Institute of Electrical and Electronics Engineers Inc.		
110	Article	Azgin K.; Akin T.; Valdevit L.	Ultrahigh-dynamic-range resonant MEMS load cells for micromechanical test frames	2012	Journal of Microelectromechanical Systems	10.1109/JMEMS.2012.2211576	Institute of Electrical and Electronics Engineers Inc.		
111	Article	Unlu M.; Demir S.; Akin T.	Triple stub circuit topology as simultaneous insertion phase, amplitude and impedance control circuit for phased array applications	2012	IET Microwaves, Antennas and Propagation	10.1049/iet-map.2011.0275	The Institution of Engineering and Technology		
112	Article	Rahimi A.; Zorlu Ö.; Muhtaroğlu A.; Kùlah H.	Fully self-powered electromagnetic energy harvesting system with highly efficient dual rail output	2012	IEEE Sensors Journal	10.1109/JSEN.2011.2177967	Institute of Electrical and Electronics Engineers Inc.		
113	Article	Koyuncuolu A.; Jafari R.; Okutucu-Ozyurt T.; Kùlah H.	Heat transfer and pressure drop experiments on CMOS compatible microchannel heat sinks for monolithic chip cooling applications	2012	International Journal of Thermal Sciences	10.1016/j.ijthermalsci.2012.01.006	Elsevier B.V.		

#	Document Type	Authors	Title	Year	Source Title	DOI	Publisher	Conference Name	Conference Date
114	Article	Yıldırım E.; Külah H.	Electrostatic energy harvesting by droplet-based multi-phase microfluidics	2012	Microfluidics and Nanofluidics	10.1007/s10404-012-0946-2	Springer Verlag		
115	Article	Boran E.; Özgür E.; Yücel M.; Gündüz U.; Eroglu I.	Biohydrogen production by Rhodobacter capsulatus in solar tubular photobioreactor on thick juice dark fermenter effluent	2012	Journal of Cleaner Production	10.1016/j.jclepro.2012.03.020	Elsevier B.V.		
116	Article	Bayraktar O.; Civi O.A.; Akin T.	Beam switching reflectarray monolithically integrated with RF MEMS switches	2012	IEEE Transactions on Antennas and Propagation	10.1109/TAP.2011.2173099	Institute of Electrical and Electronics Engineers Inc.		
117	Article	Yıldırım E.; Arıkan M.A.S.; Külah H.	A normally closed electrostatic parylene microvalve for micro total analysis systems	2012	Sensors and Actuators, A: Physical	10.1016/j.sna.2012.05.008	Elsevier B.V.		
118	Article	Pekdemir M.E.; Ertürkan D.; Külah H.; Boyacı I.H.; Özgen C.; Tamer U.	Ultrasensitive and selective homogeneous sandwich immunoassay detection by Surface Enhanced Raman Scattering (SERS)	2012	Analyst	10.1039/c2an35471c	Royal Society of Chemistry		
119	Article	Zorlu Ö.; Topal E.T.; Külah H.	A vibration-based electromagnetic energy harvester using mechanical frequency up-conversion method	2011	IEEE Sensors Journal	10.1109/JSEN.2010.2059007	Institute of Electrical and Electronics Engineers Inc.		
120	Article	Eroglu D.; Kulah H.	Quality factor enhancement of lateral microresonators in liquid media by hydrophobic coating	2011	Journal of Microelectromechanical Systems	10.1109/JMEMS.2011.2160936	Institute of Electrical and Electronics Engineers Inc.		
121	Article	Yıldırım E.; Külah H.	Analysis and characterization of an electrostatically actuated in-plane parylene microvalve	2011	Journal of Micromechanics and Microengineering	10.1088/0960-1317/21/10/105009	Institute of Physics Publishing		
122	Article	Cansoy C.E.; Erbil H.Y.; Akar O.; Akin T.	Effect of pattern size and geometry on the use of Cassie-Baxter equation for superhydrophobic surfaces	2011	Colloids and Surfaces A: Physicochemical and Engineering Aspects	10.1016/j.colsurfa.2011.07.005	Elsevier B.V.		
123	Article	Yılmaz G.; Çiftlik A.T.; Külah H.	A MEMS-based spiral channel dielectrophoretic chromatography system for cytometry applications	2011	Biotechnology Journal	10.1002/biot.201000204	WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim		
124	Article	Beker L.; Zorlu O.; Külah H.; Muhtaroglu A.	Hybrid energy harvesting from keyboard	2011	2011 International Conference on Energy Aware Computing, ICEAC 2011	10.1109/ICEAC.2011.6136691	Institute of Electrical and Electronics Engineers Inc.	2011 International Conference on Energy Aware Computing, ICEAC 2011	11/30/2011-12/02/2011
125	Article	Topal E.T.; Zorlu O.; Kulah H.; Muhtaroglu A.	A Cr-Ni thermoelectric MEMS energy harvester for low profile applications	2011	2011 International Conference on Energy Aware Computing, ICEAC 2011	10.1109/ICEAC.2011.6136675	Institute of Electrical and Electronics Engineers Inc.	2011 International Conference on Energy Aware Computing, ICEAC 2011	11/30/2011-12/02/2011
126	Article	Denker R.; Muhtaroglu A.; Kulah H.	Empirically based methodology for thermoelectric generation in notebook systems	2011	2011 International Conference on Energy Aware Computing, ICEAC 2011	10.1109/ICEAC.2011.6136683	Institute of Electrical and Electronics Engineers Inc.	2011 International Conference on Energy Aware Computing, ICEAC 2011	11/30/2011-12/02/2011
127	Article	Beker L.; Külah H.; Muhtaroglu A.	Piezoelectric cantilever prototype for energy harvesting in computing applications	2011	2011 International Conference on Energy Aware Computing, ICEAC 2011	10.1109/ICEAC.2011.6136697	Institute of Electrical and Electronics Engineers Inc.	2011 International Conference on Energy Aware Computing, ICEAC 2011	11/30/2011-12/02/2011
128	Article	Turkyilmaz S.; Muhtaroglu A.; Kulah H.	Improved second generation electromagnetic MEMS energy scavenger	2011	2011 International Conference on Energy Aware Computing, ICEAC 2011	10.1109/ICEAC.2011.6136694	Institute of Electrical and Electronics Engineers Inc.	2011 International Conference on Energy Aware Computing, ICEAC 2011	11/30/2011-12/02/2011
129	Article	Unlu M.; Topalli K.; Ibrahim Atasoy H.; Demir S.; Aydin Civi O.; Akin T.	Hybrid connection of RF MEMS and SMT components in an impedance tuner	2010	AEU - International Journal of Electronics and Communications	10.1016/j.aeue.2010.01.008	Elsevier GmbH		
130	Article	Bayram B.; Akar O.; Akin T.	Plasma-activated direct bonding of diamond-on-insulator wafers to thermal oxide grown silicon wafers	2010	Diamond and Related Materials	10.1016/j.diamond.2010.08.015	Elsevier B.V.		
131	Article	Torrents A.; Azgin K.; Godfrey S.W.; Topalli E.S.; Akin T.; Valdevit L.	MEMS resonant load cells for micro-mechanical test frames: Feasibility study and optimal design	2010	Journal of Micromechanics and Microengineering	10.1088/0960-1317/20/12/125004	Institute of Physics Publishing		



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132	Article	Ocak I.E.; Kepenek R.; Kulah H.; Akin T.	A high performance $\Sigma$ - $\Delta$ Readout circuitry for $\mu\text{g}$ resolution microaccelerometers	2010	Analog Integrated Circuits and Signal Processing	10.1007/s10470-009-9433-4	Springer Science+Business Media, LLC		
133	Article	Sari I.; Balkan T.; Kùlah H.	An electromagnetic micro power generator for low-frequency environmental vibrations based on the frequency upconversion technique	2010	Journal of Microelectromechanical Systems	10.1109/JMEMS.2009.2037245	Institute of Electrical and Electronics Engineers Inc.		
134	Article	Perruisseau-Carrier J.; Topalli K.; Akin T.	Low-loss ku-band artificial transmission line with mems tuning capability	2009	IEEE Microwave and Wireless Components Letters	10.1109/LMWC.2009.2020022	Institute of Electrical and Electronics Engineers Inc.		
135	Article	Sahin K.; Sahin E.; Alper S.E.; Akin T.	A wide-bandwidth and high-sensitivity robust microgyroscope	2009	Journal of Micromechanics and Microengineering	10.1088/0960-1317/19/7/074004	Institute of Physics Publishing		
136	Article	Ekmekci E.; Topalli K.; Akin T.; Turhan-Sayan G.	A tunable multi-band metamaterial design using micro-split SRR structures	2009	Optics Express	10.1364/OE.17.016046	Optical Society of America (OSA)		
137	Article	Topalli K.; Unlu M.; Atasoy H.I.; Demir S.; Civi O.A.; Akin T.	Empirical formulation of bridge inductance in inductively tuned RF MEMS shunt switches	2009	Progress in Electromagnetics Research	10.2528/PIER09092502	Electromagnetics Academy		
138	Article	Topalli K.; Erdil E.; Civi O.A.; Demir S.; Koc S.; Akin T.	Tunable dual-frequency RF MEMS rectangular slot ring antenna	2009	Sensors and Actuators, A: Physical	10.1016/j.sna.2009.10.005	Elsevier B.V		
139	Article	Sari I.; Balkan T.; Kulah H.	An electromagnetic micro energy harvester based on an array of parylene cantilevers	2009	Journal of Micromechanics and Microengineering	10.1088/0960-1317/19/10/105023	Institute of Physics Publishing		
140	Article	Sari I.; Balkan T.; Kulah H.	An electromagnetic micro power generator for wideband environmental vibrations	2008	Sensors and Actuators, A: Physical	10.1016/j.sna.2007.11.021	Elsevier B.V		
141	Article	Kulah H.; Najafi K.	Energy Scavenging from Low-Frequency Vibrations by Using Frequency Up-Conversion for Wireless Sensor Applications	2008	IEEE Sensors Journal	10.1109/JSEN.2008.917125	Institute of Electrical and Electronics Engineers Inc.		
142	Article	Alaca B.E.; Toga K.B.; Akar O.; Akin T.	Strain-controlled bulge test	2008	Journal of Materials Research	10.1557/jmr.2008.0395	Materials Research Society (MRS)		
143	Article	Topalli K.; Civi Ö.A.; Demir S.; Koc S.; Akin T.	A monolithic phased array using 3-bit distributed RF MEMS phase shifters	2008	IEEE Transactions on Microwave Theory and Techniques	10.1109/TMTT.2007.914377	Institute of Electrical and Electronics Engineers Inc.		
144	Article	Eminoglu S.; Tanrikulu M.Y.; Akin T.	A low-cost $128 \times 128$ uncooled infrared detector array in CMOS process	2008	Journal of Microelectromechanical Systems	10.1109/JMEMS.2007.910235	Institute of Electrical and Electronics Engineers Inc.		
145	Article	Sukas S.; Erson A.E.; Sert C.; Kulah H.	A parylene-based dual channel micro-electrophoresis system for rapid mutation detection via heteroduplex analysis	2008	Electrophoresis	10.1002/elps.200800164	Wiley-VCH Verlag		
146	Article	Alper S.E.; Temiz Y.; Akin T.	A compact angular rate sensor system using a fully decoupled silicon-on-glass MEMS gyroscope	2008	Journal of Microelectromechanical Systems	10.1109/JMEMS.2008.2007274	Institute of Electrical and Electronics Engineers Inc.		
147	Book chapter	Altan H.; Gurel O.	Tryptophan as a biomarker using terahertz spectroscopy	2021	Biophotonics, Tryptophan and Disease	10.1016/B978-0-12-822790-9.00013-9	Elsevier		
148	Book chapter	Demircan Y.; Yilmaz G.; Kùlah H.	Electrophoresis and dielectrophoresis for lab-on-a-chip (LOC) analyses	2012	Microfluidic Technologies for Human Health	10.1142/9789814405522_0014	World Scientific Publishing Co.		
149	Conference paper	Kùlah H.; Yilmaz A.M.; Ulusah H.; Chamannian S.; Batu A.; Yuksel M. B.; Yigit A.; Topcu O.; Soydan A.	A Fully-Implantable MemS-Based Autonomous Cochlear Implant	2022	2022 IEEE 35th International Conference on Micro Electro Mechanical Systems Conference (MEMS)	10.1109/MEMS51670.2022.9699689	Institute of Electrical and Electronics Engineers Inc.	35th International Conference on Micro Electro Mechanical Systems Conference (MEMS)	01/09/2022-01/13/2022
150	Conference paper	Atik B.; Demirors O.; Yildirim M.; Altan H.; Esenturk O.	Broadband THz Absorber Layers for Microbolometer Applications	2022	International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz	10.1109/IRMMW-THz50927.2022.9896092	IEEE Computer Society	47th International Conference on Infrared, Millimeter and Terahertz Waves, IRMMW-THz 2022	08/28/2022-09/02/2022
151	Conference paper	Tarim E.A.; Oksuz C.; Karakuzu B.; Tekin H.C.	Colorimetric Detection of Creatinine on an Electromechanical Mixing Platform	2021	TIPTEKNO 2021 - Tip Teknolojileri Kongresi - 2021 Medical Technologies Congress	10.1109/TIPTEKNO53239.2021.9632857	Institute of Electrical and Electronics Engineers Inc.	2021 Medical Technologies Congress, TIPTEKNO 2021	11/04/2021-11/06/2021



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152	Conference paper	Erdil E.; Sarac A.; Incecam S.; Cavdar, S.; Acar S.	Rf Magnetron Sicratma Yöntemiyle Üretilen V2O5 İnce Filmlerin Tavlama Sıcaklığına Bağlı Morfolojik, Yapısal Ve Elektriksel Değişimlerinin İncelenmesi	2021	6th INTERNATIONAL ERCİYES CONFERENCE ON SCIENTIFIC RESEARCH			6th INTERNATIONAL ERCİYES CONFERENCE ON SCIENTIFIC RESEARCH	09/01/2021-09/02/2021
153	Conference paper	Sarac A.; Erdil E.; Incecam S.; Çağırtekin A. O.; Acar S.	Vanadyum Oksit Arayüzün Diyot Parametrelerine Etkisi	2021	6th INTERNATIONAL ERCİYES CONFERENCE ON SCIENTIFIC RESEARCH			6th INTERNATIONAL ERCİYES CONFERENCE ON SCIENTIFIC RESEARCH	09/01/2021-09/02/2021
154	Conference paper	Ozcelik O.S.; Oksuz C.; Tekin H.C.	Size-Based MicropMakale Seperation Using Negative Magnetophoresis	2021	MicroTAS 2021 - 25th International Conference on Miniaturized Systems for Chemistry and Life Sciences		Chemical and Biological Microsystems Society	25th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2021	10/10/2021-10/14/2021
155	Conference paper	Erdogan R.T.; Alkhaled M.; Kaynak B.E.; Alhmoud H.; Pishah H.S.; Kelleci M.; Karakurt I.; Yanik C.; Sen Z.B.; Yagci A.M.; Ozkul A.; Hanay M.S.	Efficient Sensing Of Single Viruses And NanopMakales By Nanomechanical Sensors Integrated With Ion Lenses	2021	MicroTAS 2021 - 25th International Conference on Miniaturized Systems for Chemistry and Life Sciences		Chemical and Biological Microsystems Society	25th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2021	10/10/2021-10/14/2021
156	Conference paper	Atik B.; Dirican E.; Demirörs O.; Altan H.; Esentürk O.; Yıldırlm M.; Akın T.	Investigation of doped and undoped VOxfilms for terahertz microbolometer applications	2021	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.2594145	SPIE	Terahertz Emitters, Receivers, and Applications XII 2021	08/01/2021-08/05/2021
157	Conference paper	Koç M.; Chamanian S.; Yiğit H.A.; Uluşan H.; Külâh H.	An adaptive converter for current neural stimulators achieving up to 79% power dissipation reduction	2021	Proceedings - IEEE International Symposium on Circuits and Systems	10.1109/ISCAS51556.2021.9401284	Institute of Electrical and Electronics Engineers Inc.	53rd IEEE International Symposium on Circuits and Systems, ISCAS 2021	05/22/2021-05/28/2021
158	Conference paper	Demirörs O.; Atik B.; Dirican E.; Altan H.; Esentürk O.; Yıldırlm M.; Akın T.	Optimization of a microbolometer pixel for operation in the sub-1 THz region	2021	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.2594067	SPIE	Terahertz Emitters, Receivers, and Applications XII 2021	08/01/2021-08/05/2021
159	Conference paper	Delikoyun K.; Demir A.A.; Cumhuri Tekin H.	Label-free detection of rare cancer cells using deep learning and magnetic levitation principle	2021	Progress in Biomedical Optics and Imaging - Proceedings of SPIE	10.1117/12.2572908	SPIE	Label-free Biomedical Imaging and Sensing, LBIS 2021	03/06/2021-03/11/2021
160	Conference paper	T. Akın	Low-Cost LWIR-Band CMOS Infrared (CIR) Microbolometers for High Volume Applications	2020	Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)	10.1109/mems46641.2020.9056383	Institute of Electrical and Electronics Engineers Inc.	33rd IEEE International Conference on Micro Electro Mechanical Systems, MEMS 2020	01/18/2020-01/22/2020
161	Conference paper	Simsek E.; Azgin K.	MEMS Resonant Temperature Sensing with Variable Coupling Stiffness and Improved Sensitivity	2020	IFCS-ISAF 2020 - Joint Conference of the IEEE International Frequency Control Symposium and IEEE International Symposium on Applications of Ferroelectrics, Proceedings	10.1109/IFCS-ISAF41089.2020.9234946	Institute of Electrical and Electronics Engineers Inc.	2020 Joint Conference of the IEEE International Frequency Control Symposium and IEEE International Symposium on Applications of Ferroelectrics, IFCS-ISAF 2020	07/19/2020-07/23/2020
162	Conference paper	Balbasi C.D.; Parlak M.	Device Characterization of Thermally Evaporated CdS/CdZnTe Thin Films for Solar Cell Applications	2020	2020 2nd International Conference on Photovoltaic Science and Technologies, PVCon 2020	10.1109/PVCon51547.2020.975765	Institute of Electrical and Electronics Engineers Inc.	2nd International Conference on Photovoltaic Science and Technologies, PVCon 2020	11/30/2020-12/02/2020
163	Conference paper	Aydemir A.; Akın T.	Self-Packaged Three Axis Capacitive Mems Accelerometer	2020	Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)	10.1109/MEMS46641.2020.9056192	Institute of Electrical and Electronics Engineers Inc.	33rd IEEE International Conference on Micro Electro Mechanical Systems, MEMS 2020	01/18/2020-01/22/2020
164	Conference paper	Atik A.C.; Yıldırım E.; Külâh H.	Numerical simulation and experimental analysis of inertial cell focusing in a contraction-expansion array (CEA) microchannel	2020	MicroTAS 2020 - 24th International Conference on Miniaturized Systems for Chemistry and Life Sciences		Chemical and Biological Microsystems Society	24th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2020	10/04/2020-10/09/2020

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165	Conference paper	Özkan M.D.; Aslan M.K.; Atik A.C.; Özgür E.; Yıldırım E.; Külâh H.	Droplet based cell screening system integrated with CMOS image sensor and android-based application	2020	21st International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2017		Chemical and Biological Microsystems Society	21st International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2017	10/22/2017-10/26/2017
166	Conference paper	Atik A.C.; Yıldırım E.; Külâh H.	2D phase-field simulation and experimental validation of droplet formation in a flow-focusing junction	2020	MicroTAS 2020 - 24th International Conference on Miniaturized Systems for Chemistry and Life Sciences		Chemical and Biological Microsystems Society	24th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2020	10/04/2020-10/09/2020
167	Conference paper	Sozak A.; Simsek E.; Azgin K.	A MEMS Based Lens Microscanner for Resolution Enhancement of Infrared Imaging Systems	2019	Proceedings of IEEE Sensors	10.1109/SENSOR543011.2019.8956944	Institute of Electrical and Electronics Engineers Inc.	18th IEEE Sensors, SENSORS 2019	10/27/2019-10/30/2019
168	Conference paper	Çiftci B.; Chamanian S.; Uluşan H.; Külâh H.	An Autonomous Interface Circuit Based on Self-Investing Synchronous Energy Extraction for Low Power Piezoelectric Energy Harvesters	2019	Journal of Physics: Conference Series	10.1088/1742-6596/1407/1/012043	Institute of Physics Publishing	18th International Conference on Micro and Nanotechnology for Power Generation and Energy Conversion Applications, PowerMEMS 2018	12/04/2018-12/07/2018
169	Conference paper	Yigit H.A.; Uluşan H.; Yuksel M.B.; Chamanian S.; Ciftci B.; Koyuncuoğlu A.; Muhtaroglu A.; Kulah H.	A Pulse-Width Modulated Cochlear Implant Interface Electronics with 513 $\mu$ W Power Consumption	2019	Proceedings of the International Symposium on Low Power Electronics and Design	10.1109/ISLPED.2019.8824838	Institute of Electrical and Electronics Engineers Inc.	2019 IEEE/ACM International Symposium on Low Power Electronics and Design, ISLPED 2019	07/29/2019-07/31/2019
170	Conference paper	Çiftci B.; Chamanian S.; Uluşan H.; Yigit H.A.; Koyuncuoğlu A.; Muhtaroglu A.; Külâh H.	Low-Cost Fully Autonomous Piezoelectric Energy Harvesting Interface Circuit with up to 6.14x Power Capacity Gain	2019	Proceedings of the Custom Integrated Circuits Conference	10.1109/CICC.2019.8780232	Institute of Electrical and Electronics Engineers Inc.	40th Annual IEEE Custom Integrated Circuits Conference, CICC 2019	04/14/2019-04/17/2019
171	Conference paper	Sozak A.; Simsek E.; Azgin K.	A MEMS Based Lens Microscanner for Resolution Enhancement of Infrared Imaging Systems	2019	Proceedings of IEEE Sensors	10.1109/SENSOR543011.2019.8956944	Institute of Electrical and Electronics Engineers Inc.	18th IEEE Sensors, SENSORS 2019	10/27/2019-10/30/2019
172	Conference paper	Yalçın Y.D.; Töral T.B.; Sukas S.; Yıldırım E.; Zorlu Ö.; Gündüz U.; Külâh H.	Dielectrophoretic detection of imatinib resistance in k562 cells using a lab-on-a-chip system	2019	23rd International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2019		Chemical and Biological Microsystems Society	23rd International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2019	10/27/2019-10/31/2019
173	Conference paper	Yigit H.A.; Uluşan H.; Chamanian S.; Külâh H.	Charge balance circuit for constant current neural stimulation with less than 8 nC residual charge	2019	Proceedings - IEEE International Symposium on Circuits and Systems	10.1109/ISCAS.2019.8702790	Institute of Electrical and Electronics Engineers Inc.	2019 IEEE International Symposium on Circuits and Systems, ISCAS 2019	05/26/2019-05/29/2019
174	Conference paper	Kaya O.; Kose T.; Azgin K.	Integrated Temperature Sensor for Temperature Compensation of Inertial Sensors	2019	INERTIAL 2019 - 6th IEEE International Symposium on Inertial Sensors and Systems, Proceedings	10.1109/ISS.2019.8739559	Institute of Electrical and Electronics Engineers Inc.	6th IEEE International Symposium on Inertial Sensors and Systems, INERTIAL 2019	04/01/2019-04/05/2019
175	Conference paper	Erturk O.; Akin T.	Design and implementation of high fill-factor structures for low-cost CMOS microbolometers	2018	Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)	10.1109/MEMSYS.2018.8346649	Institute of Electrical and Electronics Engineers Inc.	31st IEEE International Conference on Micro Electro Mechanical Systems, MEMS 2018	01/21/2018-01/25/2018
176	Conference paper	Cetin R.; Erturk O.; Akin T.	Design, Analysis and Implementation of Quarter-wave Absorber Structure for Uncooled Infrared Detectors with High Fill Factor	2018	International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz	10.1109/IRMMW-THz.2018.8510442	IEEE Computer Society	43rd International Conference on Infrared Millimeter and Terahertz Waves, IRMMW-THz 2018	09/09/2018-09/14/2018
177	Conference paper	Şimşek E.; Redmond M.; Koyuncuoğlu A.; Okutucu-Özyurt T.; Külâh H.	Gold-in-water nanofluids in microchannels: Surfactant effect	2018	International Heat Transfer Conference	10.1615/ihtc16.nmt.021973	Begell House Inc.	16th International Heat Transfer Conference, IHTC 2018	08/10/2018-08/15/2018
178	Conference paper	Tanrikulu M.Y.; Yildizak C.; Okyay A.K.; Akar O.; Sarac A.; Akin T.	Single layer microbolometer detector pixel using ZnO material	2018	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.2302996	SPIE	Infrared Technology and Applications XLIV 2018	04/16/2018-04/19/2018

#	Document Type	Authors	Title	Year	Source Title	DOI	Publisher	Conference Name	Conference Date
179	Conference paper	Ulusan H.; Chamanian S.; Zorlu O.; Muhtaroglu A.; Kulah H.	Neural stimulation interface with ultra-low power signal conditioning circuit for fully-implantable cochlear implants	2018	2017 IEEE Biomedical Circuits and Systems Conference, BioCAS 2017 - Proceedings	10.1109/BIOCAS.2017.8325060	Institute of Electrical and Electronics Engineers Inc.	2017 IEEE Biomedical Circuits and Systems Conference, BioCAS 2017	10/19/2017-10/21/2017
180	Conference paper	İlik B.; Koyuncuoglu A.; Uluslan H.; Chamanian S.; Isik D.; Sardan-Sukas D.; Kulah H.	Thin Film PZT Acoustic Sensor for Fully Implantable Cochlear Implants	2017	Proceedings of Eurosensors 2017 Conference	10.3390/proceedings1040366	Multidisciplinary Digital Publishing Institute	Eurosensors 2017 Conference	09/03/2017-09/06/2017
181	Conference paper	Ozkan M.D.; Aslan M.K.; Atik A.C.; Ozgur E.; Yildirim E.; Kulah H.	Droplet based cell screening system integrated with CMOS image sensor and android-based application	2017	21st International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2017		Chemical and Biological Microsystems Society	21st International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2017	10/22/2017-10/27/2017
182	Conference paper	Tankut F.; Cologlu M.H.; Askar H.; Dumanli H.K.; Oruc F.; Tilkioglu B.; Ugur B.; Akar O.S.; Tepegoz M.; Akin T.	An 80x80 microbolometer type thermal imaging sensor using the LWIR-band CMOS infrared (CIR) technology	2017	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.2275161	SPIE	Infrared Technology and Applications XLIII	04/09/2017-04/13/2017
183	Conference paper	Arslan T.; Cilbir G.; Tepegoz M.; Akin T.	An advanced presence detection system using the CMOS Infrared (CIR) technology	2017	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.2275165	SPIE	Infrared Technology and Applications XLIII	04/09/2017-04/13/2017
184	Conference paper	Ates H.C.; Dogan B.S.; Ozgur B.; Kulah H.	Capture and Release of Viable CTCs in Microfluidic Channel	2017	Lab-on-a-Chip & Microfluidics World Congress 2017			Lab-on-a-Chip & Microfluidics World Congress 2017	10/02/2017-10/04/2017
185	Conference paper	Aslan M.K.; Yalcin Y.D.; Ozgur E.; Gunduz U.; Eminoglu S.; Kulah H.; Akin T.	A High Throughput Lab-On-A-Chip System for Label Free Quantification of Breast Cancer Cells under Continuous Flow	2017		10.1016/j.protcy.2017.04.028	Elsevier Ltd.	Biosensors 2016	10/05/2017-10/07/2017
186	Conference paper	Ozkayar G.; Demircan-Yalcin Y.; Ozgur E.; Gunduz U.; Kulah H.	A High-throughput Microfluidic Rare Cell Enrichment System Based on Dielectrophoresis and Filtering	2017		10.1016/j.protcy.2017.04.076	Elsevier Ltd.	Biosensors 2016	10/05/2017-10/07/2017
187	Conference paper	Caglayan Z.; Sel K.; Yalcin Y.D.; Sukas O.S.; Kulah H.	Analysis of the dielectrophoretic (DEP) spectra of biological cells	2017	TRANSDUCERS 2017 - 19th International Conference on Solid-State Sensors, Actuators and Microsystems	10.1109/TRANSDUCERS.2017.7994379	Institute of Electrical and Electronics Engineers Inc.	19th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS 2017	06/18/2017-06/22/2017
188	Conference paper	Tez S.; Torunbalci M.M.; Akin T.	A novel method for fabricating MEMS three-axis accelerometers using low temperature Au-Sn eutectic bonding	2017	Proceedings of IEEE Sensors	10.1109/ICSENS.2016.7808705	Institute of Electrical and Electronics Engineers Inc.	15th IEEE Sensors Conference, SENSORS 2016	10/30/2016-11/02/2016
189	Conference paper	Kose T.; Terzioğlu Y.; Azgin K.; Akin T.	A single-mass self-resonating closed-loop capacitive MEMS accelerometer	2017	Proceedings of IEEE Sensors	10.1109/ICSENS.2016.7808711	Institute of Electrical and Electronics Engineers Inc.	15th IEEE Sensors Conference, SENSORS 2016	10/30/2016-11/02/2016
190	Conference paper	Gokce F.; Aydin E.; Kanguş M.; Toral T.B.; Zorlu O.; Sardan-Sukas O.; Kulah H.	A parylene bonding based fabrication method for gravimetric resonant based MASS sensors	2017	TRANSDUCERS 2017 - 19th International Conference on Solid-State Sensors, Actuators and Microsystems	10.1109/TRANSDUCERS.2017.7994268	Institute of Electrical and Electronics Engineers Inc.	19th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS 2017	06/18/2017-06/22/2017
191	Conference paper	Asian M.K.; Kulah H.	Android based portable cell counting system for label free quantification of dep manipulated cancer cells	2017	TRANSDUCERS 2017 - 19th International Conference on Solid-State Sensors, Actuators and Microsystems	10.1109/TRANSDUCERS.2017.7994109	Institute of Electrical and Electronics Engineers Inc.	19th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS 2017	06/18/2017-06/22/2017
192	Conference paper	Aydin E.; Kanguş M.; Gokce F.; Zorlu O.; Kulah H.	A novel characterization method for MEMS based electrostatic resonators for Q enhancement and feedthrough current elimination	2016	Proceedings of IEEE Sensors	10.1109/ICSENS.2016.7808938	Institute of Electrical and Electronics Engineers Inc.	15th IEEE Sensors Conference, SENSORS 2016	10/30/2016-11/02/2016
193	Conference paper	Eminoglu S.; Incedere O.S.; Bayhan N.; Isikhan M.; Soyer S.T.; Ustundag C.M.B.; Kocak S.; Turan O.; Eksi U.; Akin T.	A 640x512-20µm dual-polarity ROIC for MWIR and LWIR hybrid FPAs	2016	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.2224743	SPIE	Infrared Technology and Applications XLII	04/18/2016-04/21/2016

#	Document Type	Authors	Title	Year	Source Title	DOI	Publisher	Conference Name	Conference Date
194	Conference paper	Kangül M.; Aydın E.; Gökçe F.; Toral T.; Zorlu O.; Külah H.	Design of a Resonator-on-Microchannel (RoM) for Gravimetric Detection Applications in Liquid Environment	2016	Procedia Engineering	10.1016/j.proeng.2016.11.510	Elsevier Ltd	30th Eurosensors Conference, Eurosensors 2016	09/04/2016-09/07/2016
195	Conference paper	Uluşan H.; Chamanian S.; Pathirana W.M.P.R.; Zorlu Ö.; Muhtaroglu A.; Külah H.	Triple Hybrid Energy Harvesting Interface Electronics	2016	Journal of Physics: Conference Series	10.1088/1742-6596/773/1/012027	Institute of Physics Publishing	16th International Conference on Micro and Nanotechnology for Power Generation and Energy Conversion Applications, PowerMEMS 2016	12/06/2016-12/09/2016
196	Conference paper	Atik A.C.; Ozkan M.D.; Kulah H.; Yildirim E	A Novel Cell Sorting Structure to Improve Droplet-Based Single Cell Encapsulation	2016	EMBL Conference: Microfluidics 2016			EMBL Conference: Microfluidics 2016	07/24/2016-07/26/2016
197	Conference paper	Parsian M.; Atik A.C.; Ozkan M.D.; Gunduz U.; Kulah H.; Ozgur E.; Yildirim E	On-Chip Insulated Micro Well Array for Cell Viability Assays	2016	EMBL Conference: Microfluidics 2016			EMBL Conference: Microfluidics 2016	07/24/2016-07/26/2016
198	Conference paper	Çağlayan Z.; Demircan Yalçın Y.; Özkayar G.; Kahraman D. C.; Atalay R.; Özgür E.; Külah H.	Dielectrophoretic Spectra of CD133+/EpCAM+ HUH7 Cancer Stem Cells and HUH7 Cancer Cells	2016	Dielectrophoresis 2016			Dielectrophoresis 2016	07/13/2016-07/15/2016
199	Conference paper	Çağlayan Z.; Demircan-Yalçın Y.; Özkayar G.; Özgür E.; Külah H.	Dielectrophoretic Spectra of Polymorphonuclear White Blood Cells	2016	3rd International Congress on Biosensors			3rd International Congress on Biosensors	05/25/2016-05/27/2016
200	Conference paper	Sen-Dogan B., Afsar-Erkal N., Ozgur E., Zorlu O., Kulah H.	Performance enhancement of micro-scale microbial fuel cells ( $\mu$ MFC) for nanoscale power generation	2016	16th International Conference on Micro and Nanotechnology for Power Generation and Energy Conversion Applications (PowerMEMS 2016)	10.1088/1742-6596/773/1/012018	Institute of Physics Publishing	16th International Conference on Micro and Nanotechnology for Power Generation and Energy Conversion Applications (PowerMEMS 2016)	12/06/2016-12/09/2016
201	Conference paper	Sen-Dogan B., Afsar-Erkal N., Ozgur E., Zorlu O., Kulah H.	Performance enhancement of micro-scale microbial fuel cells ( $\mu$ MFC) for nanoscale power generation	2016	Regenerative Nano-Medicine: From Advanced Delivery Systems to Electronic-Based Devices			Regenerative Nano-Medicine: From Advanced Delivery Systems to Electronic-Based Devices, Tel Aviv, Israel, 2016	June 2016
202	Conference paper	Doğan B.Ş.; Erkal N.A.; Özgür E.; Zorlu Ö.; Külah H.	Performance Enhancement of Mems-Based Microbial Fuel Cells ( $\mu$ MFC) for Microscale Power Generation	2016	Journal of Physics: Conference Series	10.1088/1742-6596/773/1/012018	Institute of Physics Publishing	16th International Conference on Micro and Nanotechnology for Power Generation and Energy Conversion Applications, PowerMEMS 2016	12/06/2016-12/09/2016
203	Conference paper	Yalçın Y.D.; Özkayar G.; Özgür E.; Gündüz U.; Külah H.	A DEP-based lab-on-a-chip system for the detection of multidrug resistance in K562 leukemia cells	2016	2016 Solid-State Sensors, Actuators and Microsystems Workshop, Hilton Head 2016	10.31438/trf.hh2016.86	Transducer Research Foundation	2016 Solid-State Sensors, Actuators and Microsystems Workshop, Hilton Head 2016	06/05/2016-06/09/2016
204	Conference paper	Kose T.; Azgin K.; Akin T.	Temperature compensation of a capacitive MEMS accelerometer by using a MEMS oscillator	2016	IEEE 3rd International Symposium on Inertial Sensors and Systems, ISS 2016 - Proceedings	10.1109/ISS.2016.7435538	Institute of Electrical and Electronics Engineers Inc.	3rd IEEE International Symposium on Inertial Sensors and Systems, ISS 2016	02/22/2016-02/22/2016
205	Conference paper	Altinoluk S.H.; Ciftpinar H.E.; Demircioglu O.; Es F.; Baytemir G.; Akar O.; Aydemir A.; Sarac A.; Akin T.; Turan R.	Light Trapping by Micro and Nano-hole Texturing of Single-crystalline Silicon Solar Cells	2016	Energy Procedia	10.1016/j.egypro.2016.07.081	Elsevier Ltd	6th International Conference on Crystalline Silicon Photovoltaics, SiliconPV 2016	03/07/2016-03/09/2016
206	Conference paper	Torunbalci M.M.; Alper S.E.; Akin T.	A novel fabrication and wafer level hermetic sealing method for SOI-MEMS devices using SOI cap wafers	2015	Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)	10.1109/MEMSYS.2015.7050976	Institute of Electrical and Electronics Engineers Inc.	28th IEEE International Conference on Micro Electro Mechanical Systems, MEMS 2015	01/18/2015-01/25/2015
207	Conference paper	Torunbalci M.M.; Alper S.E.; Akin T.	Die size reduction by optimizing the dimensions of the vertical feedthrough pitch and sealing area in the advanced MEMS (aMEMS) process	2015	2nd IEEE International Symposium on Inertial Sensors and Systems, IEEE ISISS 2015 - Proceedings	10.1109/ISS.2015.7102380	Institute of Electrical and Electronics Engineers Inc.	2nd IEEE International Symposium on Inertial Sensors and Systems, IEEE ISISS 2015	03/23/2015-03/26/2015

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208	Conference paper	Torunbalci M.M.; Alper S.E.; Akin T.	The advanced MEMS (aMEMS) process for fabricating wafer level vacuum packaged SOI-MEMS devices with embedded vertical feedthroughs	2015	2015 Transducers - 2015 18th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS 2015	10.1109/TRANSDUCERS.2015.7180963	Institute of Electrical and Electronics Engineers Inc.	18th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS 2015	06/21/2015-06/25/2015
209	Conference paper	Aydemir A.; Akin T.	DRIE Process Optimization to Achieve High Aspect Ratio for Capacitive MEMS Sensors	2015	The 26th Micromechanics and Micro Systems Europe Workshop, (MME'15)			The 26th Micromechanics and Micro Systems Europe Workshop, (MME'15)	
210	Conference paper	Aydemir A.; Akin T.	An Ultimate Capacitive MEMS Accelerometer with Differential Sensing Capability	2015	The 26th Micromechanics and Micro Systems Europe Workshop, (MME'15)			The 26th Micromechanics and Micro Systems Europe Workshop, (MME'15)	
211	Conference paper	Aydemir A.; Akin T.	Fabrication of a three-axis capacitive MEMS accelerometer on a single substrate	2015	2015 IEEE SENSORS - Proceedings	10.1109/ICSENS.2015.7370307	Institute of Electrical and Electronics Engineers Inc.	14th IEEE SENSORS	11/01/2015-11/04/2015
212	Conference paper	Terzioğlu Y.; Kose T.; Azgin K.; Akin T.	A simple out-of-plane capacitive MEMS accelerometer utilizing lateral and vertical electrodes for differential sensing	2015	2015 IEEE SENSORS - Proceedings	10.1109/ICSENS.2015.7370306	Institute of Electrical and Electronics Engineers Inc.	14th IEEE SENSORS	11/01/2015-11/04/2015
213	Conference paper	Gharehbaghi K.; Zorlu O.; Koçer F.; Kûlah H.	Auto-calibrating threshold compensation technique for RF energy harvesters	2015	Digest of Papers - IEEE Radio Frequency Integrated Circuits Symposium	10.1109/RFIC.2015.7337734	Institute of Electrical and Electronics Engineers Inc.	IEEE Radio Frequency Integrated Circuits Symposium, RFIC 2015	05/17/2015-05/19/2015
214	Conference paper	Özkayar G., Demircan Yalçın Y., Özgür E., Gündüz U., Kûlah H.	Enrichment of K562 human leukemia cells from diluted whole blood by using dielectrophoresis	2015				2nd International Biosensor Congress, Izmir, Türkiye	06/10/2015-06/12/2015
215	Conference paper	Demircan Yalçın, Y., Özgür, E., Gündüz, U., & Kûlah, H.	Dielectrophoretic detection of multidrug resistance in cancer	2015				2nd International Biosensor Congress, Izmir, Türkiye	06/10/2015-06/12/2015
216	Conference paper	Muhtaroglu A., Kulah H.	Micro-power generators with integrated interface considerations for hybrid-mode harvesting applications	2015				Workshop on Dynamics of Nonlinear Materials and Structures in Energy Harvesting, Poland	03/19/2015
217	Conference paper	Eminoglu S.; Gulden M.A.; Bayhan N.; Incedere O.S.; Isikhan M.; Soyer S.T.; Yalcin C.; Ustundag C.M.B.; Kocak S.; Turan O.; Eksi U.; Akin T.	A 640x480-17µm ROIC for uncooled microbolometer FPAs	2015	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.2179538	SPIE	41st Conference on Infrared Technology and Applications	04/20/2015-04/23/2015
218	Conference paper	Eminoglu S.; Isikhan M.; Bayhan N.; Gulden M.A.; Incedere O.S.; Soyer S.T.; Kocak S.; Yalcin C.; Ustundag M.C.B.; Turan O.; Eksi U.; Akin T.	A 1280x1024-15µm CTIA ROIC for SWIR FPAs	2015	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.2179537	SPIE	41st Conference on Infrared Technology and Applications	04/20/2015-04/23/2015
219	Conference paper	Aydemir A.; Akin T.	Process development for the fabrication of a three axes capacitive MEMS accelerometer	2015	Procedia Engineering	10.1016/j.proeng.2015.08.773	Elsevier Ltd	29th European Conference on Solid-State Transducers, EUROSENSORS 2015	09/06/2015-09/09/2015
220	Conference paper	Uluşan H.; Yaşar O.; Zorlu O.; Kûlah H.	Optimized electromagnetic harvester with a non-magnetic inertial mass	2015	Procedia Engineering	10.1016/j.proeng.2015.08.629	Elsevier Ltd	29th European Conference on Solid-State Transducers, EUROSENSORS 2015	09/06/2015-09/09/2015
221	Conference paper	Terzioğlu Y.; Kose T.; Azgin K.; Akin T.	A simple out-of-plane capacitive MEMS accelerometer utilizing lateral and vertical electrodes for differential sensing	2015	2015 IEEE SENSORS - Proceedings	10.1109/ICSENS.2015.7370306	Institute of Electrical and Electronics Engineers Inc.	14th IEEE SENSORS	11/01/2015-11/04/2015
222	Conference paper	Köse T.; Terzioğlu Y.; Azgin K.; Akin T.	A single mass two-axis capacitive MEMS accelerometer with force rebalance	2015	2nd IEEE International Symposium on Inertial Sensors and Systems, IEEE ISISS 2015 - Proceedings	10.1109/ISSIS.2015.7102371	Institute of Electrical and Electronics Engineers Inc.	2nd IEEE International Symposium on Inertial Sensors and Systems, IEEE ISISS 2015	03/23/2015-03/26/2015

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223	Conference paper	Demircan Y.; Orguc S.; Musayev J.; Ozgur E.; Erdem M.; Gunduz U.; Eminoglu S.; Kulah H.; Akin T.	Label-free detection of leukemia cells with a lab-on-a-chip system integrating dielectrophoresis and CMOS imaging	2015	2015 Transducers - 2015 18th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS 2015	10.1109/TRANSDUCERS.2015.7181243	Institute of Electrical and Electronics Engineers Inc.	18th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS 2015	06/21/2015-06/25/2015
224	Conference paper	Uluşan H.; Gharehbaghi K.; Zorlu Ö.; Muhtarolu A.; KulaH H.	A Self-Powered Hybrid Energy Scavenging System Utilizing RF and Vibration Based Electromagnetic Harvesters	2015	Journal of Physics: Conference Series	10.1088/1742-6596/660/1/012023	Institute of Physics Publishing	15th International Conference on Micro and Nanotechnology for Power Generation and Energy Conversion Applications, PowerMEMS 2015	12/01/2015-12/04/2015
225	Conference paper	Chamanian S.; Zorlu O.; Kulah H.; Muhtaroglu A.	An adaptive piezoelectric energy harvesting interface circuit with a novel peak detector	2015	5th International Conference on Energy Aware Computing Systems and Applications, ICEAC 2015	10.1109/ICEAC.2015.7352204	Institute of Electrical and Electronics Engineers Inc.	5th International Conference on Energy Aware Computing Systems and Applications, ICEAC 2015	03/24/2015-03/26/2015
226	Conference paper	Gavcar H.D.; Azgin K.; Alper S.E.; Akin T.	An automatic acceleration compensation system for a single-mass MEMS gyroscope	2015	2015 Transducers - 2015 18th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS 2015	10.1109/TRANSDUCERS.2015.7180850	Institute of Electrical and Electronics Engineers Inc.	18th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS 2015	06/21/2015-06/25/2015
227	Conference paper	Ulusan H.; Zorlu O.; Kulah H.; Muhtaroglu A.	Stage optimization in regulated step-up for low voltage electromagnetic energy harvesters	2015	5th International Conference on Energy Aware Computing Systems and Applications, ICEAC 2015	10.1109/ICEAC.2015.7352198	Institute of Electrical and Electronics Engineers Inc.	5th International Conference on Energy Aware Computing Systems and Applications, ICEAC 2015	03/24/2015-03/26/2015
228	Conference paper	Yesil F.; Alper S.E.; Akin T.	An automatic mode matching system for a high Q-factor MEMS gyroscope using a decoupled perturbation signal	2015	2015 Transducers - 2015 18th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS 2015	10.1109/TRANSDUCERS.2015.7181131	Institute of Electrical and Electronics Engineers Inc.	18th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS 2015	06/21/2015-06/25/2015
229	Conference paper	Kebapci B.; Tankut F.; Altan H.; Akin T.	Detection of the mm-wave radiation using a low-cost LWIR microbolometer camera from a multiplied Schottky diode based source	2015	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.2199450	SPIE	Millimetre Wave and Terahertz Sensors and Technology VIII	09/22/2015
230	Conference paper	Bayraktar O.; Kobal E.; Sevinc Y.; Cetintepe C.; Comart I.; Demirel K.; Topalli E.S.; Akin T.; Demir S.; Civi O.A.	RF MEMS based millimeter wave phased array for short range communication	2015	2015 9th European Conference on Antennas and Propagation, EuCAP 2015		Institute of Electrical and Electronics Engineers Inc.	9th European Conference on Antennas and Propagation, EuCAP 2015	05/13/2015-05/17/2015
231	Conference paper	Cetintepe C.; Topalli E.S.; Demir S.; Civi O.A.; Akin T.	A fabrication process based on structural layer formation using Au-Au thermocompression bonding for RF MEMS capacitive switches and their performance	2014	International Journal of Microwave and Wireless Technologies	10.1017/S1759078714000968	Cambridge University Press		
232	Conference paper	Sonmezoglu S.; Gavcar H.D.; Azgin K.; Alper S.E.; Akin T.	Simultaneous detection of linear and coriolis accelerations on a mode-matched MEMS gyroscope	2014	Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)	10.1109/MEMSYS.2014.6765566	Institute of Electrical and Electronics Engineers Inc.	27th IEEE International Conference on Micro Electro Mechanical Systems, MEMS 2014	01/26/2014-01/30/2014
233	Conference paper	Mert Torunbalci M.; Alper S.E.; Akin T.	Wafer level hermetic encapsulation of MEMS inertial sensors using SOI cap wafers with vertical feedthroughs	2014	1st IEEE International Symposium on Inertial Sensors and Systems, ISISS 2014 - Proceedings	10.1109/ISSS.2014.6782539	IEEE Computer Society	1st IEEE International Symposium on Inertial Sensors and Systems, ISISS 2014	02/25/2014-02/26/2014
234	Conference paper	Terzioglu Y.; Alper S.E.; Azgin K.; Akin T.	A capacitive MEMS accelerometer readout with concurrent detection and feedback using discrete components	2014	Record - IEEE PLANS, Position Location and Navigation Symposium	10.1109/PLANS.2014.6851351	Institute of Electrical and Electronics Engineers Inc.	2014 IEEE/ION Position, Location and Navigation Symposium, PLANS 2014	05/05/2014-05/08/2014



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235	Conference paper	Torunbalci M.M.; Demir E.C.; Donmez I.; Alper S.E.; Akin T.	Gold-tin eutectic bonding for hermetic packaging of MEMS devices with vertical feedthroughs	2014	Proceedings of IEEE Sensors	10.1109/ICSENS.2014.6985473	Institute of Electrical and Electronics Engineers Inc.	13th IEEE SENSORS Conference, SENSORS 2014	11/02/2014-11/05/2014
236	Conference paper	Demir E.C.; Torunbalci M.M.; Donmez I.; Kalay Y.E.; Akin T.	Fabrication and characterization of gold-tin eutectic bonding for hermetic packaging of MEMS devices	2014	Proceedings of the 16th Electronics Packaging Technology Conference, EPTC 2014	10.1109/EPTC.2014.7028329	Institute of Electrical and Electronics Engineers Inc.	2014 16th IEEE Electronics Packaging Technology Conference, EPTC 2014	12/03/2014-12/05/2014
237	Conference paper	Demircan Y.; Erdem M.; Ozgur E.; Gunduz U.; Kulah H.	Determination of multidrug resistance level in K562 Leukemia cells by 3D-electrode contactless dielectrophoresis	2014	Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)	10.1109/MEMSYS.2014.6765771	Institute of Electrical and Electronics Engineers Inc.	27th IEEE International Conference on Micro Electro Mechanical Systems, MEMS 2014	01/26/2014-01/30/2014
238	Conference paper	Erdil E.; Topalli K.; Esmailizad N.S.; Zorlu O.; Kulah H.; Civi O.A.	A reconfigurable nested ring-split ring transmitarray unit cell by microfluidic technology	2014	8th European Conference on Antennas and Propagation, EuCAP 2014	10.1109/EuCAP.2014.6901708	Institute of Electrical and Electronics Engineers Inc.	8th European Conference on Antennas and Propagation, EuCAP 2014	04/06/2014-04/11/2014
239	Conference paper	Bahrieh G., Erdem M., Özgür E., Gündüz U., Kùlah H.	Analyses of Changes in Dielectric Properties of Doxorubicin Resistant Breast Cancer Cells Through Electrorotation With 3D Electrodes	2014	Dielectrophoresis 2014			Dielectrophoresis 2014	07/16/2014
240	Conference paper	Bahrieh, G., Özgür, E., & Kùlah, H.	Dielectrophoretic Separation of K562 Human Leukemia Cells From Leukocytes by Isolated 3D Electrodes	2014	25th Micromechanics and Microsystems Europe workshop (MME 2014), Istanbul, Turkey			25th Micromechanics and Microsystems Europe workshop (MME 2014), Istanbul, Turkey	08/31/2014-09/03/2014
241	Conference paper	Sümer Laçın, Ö., Demircan Yalçın, Y., Zorlu, Ö., Özgür, E., Gündüz, U., Kùlah, H., & Erdem, M.	High Throughput Parylene Micro-Channel Coulter Counter For Parallel Cell Counting and Sorting	2014	Dielectrophoresis 2014			Dielectrophoresis 2014	07/16/2014
242	Conference paper	Demircan Yalçın, Y., Erdem, M., Özgür, E., Gündüz, U., & Kùlah, H.	Label-free multidrug resistance detection in MCF-7 cells by isolated 3D-electrode dielectrophoresis		Dielectrophoresis 2014			Dielectrophoresis 2014	07/16/2014
243	Conference paper	Tepegöz M.; Kucukkomurler A.; Tankut F.; Eminoglu S.; Akin T.	A miniature low-cost LWIR camera with a 160×120 microbolometer FPA	2014	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.2057508	SPIE	40th Conference on Infrared Technology and Applications	05/05/2014-05/08/2014
244	Conference paper	Eminoglu S.; Gulden M.A.; Bayhan N.; Incedere O.S.; Soyer S.T.; Ustundag C.M.B.; Isikhan M.; Kocak S.; Turan O.; Yalcin C.; Akin T.	MT3825BA: A 384×288-25µm ROIC for uncooled microbolometer FPAs	2014	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.2057510	SPIE	40th Conference on Infrared Technology and Applications	05/05/2014-05/08/2014
245	Conference paper	Torunbalci M.M.; Alper S.E.; Akin T.	A method of fabricating vacuum packages with vertical feedthroughs in a wafer level anodic bonding process	2014	Procedia Engineering	10.1016/j.proeng.2014.11.297	Elsevier Ltd	28th European Conference on Solid-State Transducers, EUROSensors 2014	09/07/2014-09/10/2014
246	Conference paper	Cetintepe C.; Topalli E.S.; Demir S.; Civi O.A.; Akin T.	A fabrication process based on structural layer formation using Au-Au thermocompression bonding for RF MEMS capacitive switches and their performance	2014	International Journal of Microwave and Wireless Technologies	10.1017/S1759078714000968	Cambridge University Press		
247	Conference paper	Sonmezoglu S.; Gavcar H.D.; Azgin K.; Alper S.E.; Akin T.	Simultaneous detection of linear and coriolis accelerations on a mode-matched MEMS gyroscope	2014	Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)	10.1109/MEMSYS.2014.6765566	Institute of Electrical and Electronics Engineers Inc.	27th IEEE International Conference on Micro Electro Mechanical Systems, MEMS 2014	01/26/2014-01/30/2014
248	Conference paper	Terzioglu Y.; Alper S.E.; Azgin K.; Akin T.	A capacitive MEMS accelerometer readout with concurrent detection and feedback using discrete components	2014	Record - IEEE PLANS, Position Location and Navigation Symposium	10.1109/PLANS.2014.6851351	Institute of Electrical and Electronics Engineers Inc.	2014 IEEE/ION Position, Location and Navigation Symposium, PLANS 2014	05/05/2014-05/08/2014
249	Conference paper	Erdil E.; Topalli K.; Esmailizad N.S.; Zorlu O.; Kulah H.; Civi O.A.	A reconfigurable nested ring-split ring transmitarray unit cell by microfluidic technology	2014	8th European Conference on Antennas and Propagation, EuCAP 2014	10.1109/EuCAP.2014.6901708	Institute of Electrical and Electronics Engineers Inc.	8th European Conference on Antennas and Propagation, EuCAP 2014	04/06/2014-04/11/2014
250	Conference paper	Baghaee S.; Chamanian S.; Ulsan H.; Zorlu O.; Uysal-Biyikoglu E.; Kulah H.	Demonstration of energy-neutral operation on a WSN testbed using vibration energy harvesting	2014	20th European Wireless Conference, EW 2014		VDE VERLAG GMBH	20th European Wireless Conference, EW 2014	05/14/2014-05/16/2014



#	Document Type	Authors	Title	Year	Source Title	DOI	Publisher	Conference Name	Conference Date
251	Conference paper	Uluşan H.; Zorlu Ö.; Muhtarolu A.; Kùlah H.	A self-powered and efficient rectifier for electromagnetic energy harvesters	2014	Proceedings of IEEE Sensors	10.1109/ICSENS.2014.6984963	Institute of Electrical and Electronics Engineers Inc.	13th IEEE SENSORS Conference, SENSORS 2014	11/02/2014-11/05/2014
252	Conference paper	Kebapci B.; Dervisoglu O.; Battal E.; Okyay A.K.; Akin T.	Broadband absorption enhancement in an uncooled microbolometer infrared detector	2014	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.2069937	SPIE	40th Conference on Infrared Technology and Applications	05/05/2014-05/08/2014
253	Conference paper	Erdil E.; Topalli K.; Esmailzad N.S.; Zorlu O.; Kulah H.; Civi O.A.	Microfluidic reconfigurable nested split ring-regular ring transmitarray unit cell	2014	2014 31th URSI General Assembly and Scientific Symposium, URSI GASS 2014	10.1109/URSIGASS.2014.6929121	Institute of Electrical and Electronics Engineers Inc.	31st General Assembly and Scientific Symposium of the International Union of Radio Science, URSI GASS 2014	08/16/2014-08/23/2014
254	Conference paper	Demircan Y.; Erdem M.; Ozgur E.; Gunduz U.; Kulah H.	Determination of multidrug resistance level in K562 Leukemia cells by 3D-electrode contactless dielectrophoresis	2014	Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)	10.1109/MEMSYS.2014.6765771	Institute of Electrical and Electronics Engineers Inc.	27th IEEE International Conference on Micro Electro Mechanical Systems, MEMS 2014	01/26/2014-01/30/2014
255	Conference paper	Mert Torunbalci M.; Alper S.E.; Akin T.	Wafer level hermetic encapsulation of MEMS inertial sensors using SOI cap wafers with vertical feedthroughs	2014	1st IEEE International Symposium on Inertial Sensors and Systems, ISSS 2014 - Proceedings	10.1109/ISSS.2014.6782539	IEEE Computer Society	1st IEEE International Symposium on Inertial Sensors and Systems, ISSS 2014	02/25/2014-02/26/2014
256	Conference paper	Koyuncuođlu A.; Türkakar G.; Redmond M.; Okutucu-özyurt T.; Kùlah H.; Kumar S.	An experimental study on performance enhancement of cmos compatible monolithic microchannel heat sinks	2014	International Symposium on Advances in Computational Heat Transfer	10.1615/ICHMT.2014.IntSympConvHeatMassTransf.700	Begell House Inc.	International Symposium on Convective Heat and Mass Transfer, CONV 2014	06/08/2014-06/13/2014
257	Conference paper	Zorlu O.; Türkyilmaz S.; Muhtaroglu A.; Kùlah H.	An electromagnetic energy harvester for low frequency and low-g vibrations with a modified frequency up conversion method	2013	Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)	10.1109/MEMSYS.2013.6474365		IEEE 26th International Conference on Micro Electro Mechanical Systems, MEMS 2013	01/20/2013-01/23/2013
258	Conference paper	Gelenbe E.; Gesbert D.; Gunduz D.; Kùlah H.; Uysal-Biyikoglu E.	Energy harvesting communication networks: Optimization and demonstration (The E-CROPS project)	2013	2013 24th Tyrrhenian International Workshop on Digital Communications - Green ICT, TIWDC 2013	10.1109/TIWDC.2013.6664201	IEEE Computer Society	2013 24th Tyrrhenian International Workshop on Digital Communications - Green Information and Communications Technology, TIWDC 2013	09/23/2013-09/25/2013
259	Conference paper	Nuzumlali, O. L.; Eren, M.; Kùlah, H.	A CMOS Based Current-to-Frequency Converter for Current Output Analog Accelerometers	2013	ION 2013 Pacific PNT Meeting			ION 2013 Pacific PNT Meeting	04/23/2013-04/25/2013
260	Conference paper	Eminoglu S.; Isikhan M.; Bayhan N.; Gulden M.A.; Incedere O.S.; Soyer S.T.; Kocak S.; Gokhan S.Y.; Akin T.	MT6415CA: A 640x512-15µm CTIA ROIC for SWIR InGaAs detector arrays	2013	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.2019519		39th Infrared Technology and Applications	04/29/2013-05/03/2013
261	Conference paper	Beker L.; Özgüven N.H.; Kùlah H.	Optimization of an energy harvester coupled to a vibrating membrane	2013	Conference Proceedings of the Society for Experimental Mechanics Series	10.1007/978-1-4614-6546-1_61	Springer	31st International Modal Analysis Conference on Structural Dynamics, IMAC 2013	02/11/2013-02/13/2013
262	Conference paper	Baghaee S.; Uluşan H.; Chamanian S.; Zorlu O.; Kulah H.; Uysal-Biyikoglu E.	Towards a vibration energy harvesting WSN demonstration testbed	2013	2013 24th Tyrrhenian International Workshop on Digital Communications - Green ICT, TIWDC 2013	10.1109/TIWDC.2013.6664202	IEEE Computer Society	2013 24th Tyrrhenian International Workshop on Digital Communications - Green Information and Communications Technology, TIWDC 2013	09/23/2013-09/25/2013
263	Conference paper	Chamanian S.; Zorlu O.; Kulah H.; Muhtaroglu A.	A self-powered integrated interface circuit for low power piezoelectric energy harvesters	2013	2013 4th Annual International Conference on Energy Aware Computing Systems and Applications, ICEAC 2013	10.1109/ICEAC.2013.6737635	IEEE Computer Society	2013 4th Annual International Conference on Energy Aware Computing Systems and Applications, ICEAC 2013	12/16/2013-12/18/2013

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264	Conference paper	Tez S.; Akin T.	Fabrication of a sandwich type three axis capacitive MEMS accelerometer	2013	Proceedings of IEEE Sensors	10.1109/ICSENS.2013.6688598	IEEE Computer Society	12th IEEE SENSORS 2013 Conference	11/04/2013-11/06/2013
265	Conference paper	Eminoglu S.; Akin T.	MT3250BA: A 320×256-50µm Snapshot microbolometer roic for high-resistance detector arrays	2013	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.2019525	SPIE	39th Infrared Technology and Applications	04/29/2013-05/03/2013
266	Conference paper	Beker L.; Zorlu O.; Kùlah H.	A room temperature, zero force, wafer-level attachment method for MEMS integration	2013	Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)	10.1109/MEMSYS.2013.6474229	Institute of Electrical and Electronics Engineers Inc.	IEEE 26th International Conference on Micro Electro Mechanical Systems, MEMS 2013	01/20/2013-01/23/2013
267	Conference paper	Zorlu O.; Türkyilmaz S.; Muhtaroglu A.; Kùlah H.	An electromagnetic energy harvester for low frequency and low-g vibrations with a modified frequency up conversion method	2013	Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)	10.1109/MEMSYS.2013.6474365	Institute of Electrical and Electronics Engineers Inc.	IEEE 26th International Conference on Micro Electro Mechanical Systems, MEMS 2013	01/20/2013-01/24/2013
268	Conference paper	Ulusan H.; Gharehbaghi K.; Zorlu O.; Muhtaroglu A.; Kùlah H.	An efficient integrated interface electronics for electromagnetic energy harvesting from low voltage sources	2013	2013 Transducers and Eurosensors XXVII: The 17th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS and EUROSSENSORS 2013	10.1109/Transducers.2013.6626800	Institute of Electrical and Electronics Engineers Inc.	2013 17th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS and EUROSSENSORS 2013	06/16/2013-06/20/2013
269	Conference paper	Demircan Y.; Koyuncuoglu A.; Erdem M.; Ozgur E.; Gunduz U.; Kùlah H.	Detection of imatinib resistance in K562 leukemia cells by 3D-electrode contactless dielectrophoresis	2013	2013 Transducers and Eurosensors XXVII: The 17th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS and EUROSSENSORS 2013	10.1109/Transducers.2013.6627211	Institute of Electrical and Electronics Engineers Inc.	2013 17th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS and EUROSSENSORS 2013	06/16/2013-06/20/2013
270	Conference paper	Erturk O.; Battal E.; Kucuk S.E.; Okyay A.K.; Akin T.	A plasmonically enhanced pixel structure for uncooled microbolometer detectors	2013	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.2019540	SPIE	39th Infrared Technology and Applications	04/29/2013-05/03/2013
271	Conference paper	Ulusan H.; Zorlu O.; Kùlah H.; Muhtaroglu A.	A 180 nm self-powered rectifier circuit for electromagnetic energy harvesters	2013	2013 4th Annual International Conference on Energy Aware Computing Systems and Applications, ICEAC 2013	10.1109/ICEAC.2013.6737632	IEEE Computer Society	2013 4th Annual International Conference on Energy Aware Computing Systems and Applications, ICEAC 2013	12/16/2013-12/18/2013
272	Conference paper	Koyuncuoglu A.; Zorlu Ö.; Okutucu Özyurt T.; Kùlah H.	Hybrid energy harvester using piezoelectric and pyroelectric properties of PZT-5A ceramics	2013	11th International Energy Conversion Engineering Conference	10.2514/6.2013-4030		11th International Energy Conversion Engineering Conference, IECEC 2013	06/14/2013-06/17/2013
273	Conference paper	Erdil E.; Topalli K.; Zorlu O.; Toral T.; Yildirim E.; Kùlah H.; Civi O.A.	A reconfigurable microfluidic transmitarray unit cell	2013	2013 7th European Conference on Antennas and Propagation, EuCAP 2013			2013 7th European Conference on Antennas and Propagation, EuCAP 2013	04/08/2013-04/12/2013
274	Conference paper	Musayev J.; Adigüzel Y.; Kùlah H.; Eminoğlu S.; Akin T.	Cell detection using a CMOS image sensor with modified pixel structure suitable for bio-chemical surface activation	2013	Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)	10.1109/MEMSYS.2013.6474400	Institute of Electrical and Electronics Engineers Inc.	IEEE 26th International Conference on Micro Electro Mechanical Systems, MEMS 2013	01/20/2013-01/24/2013

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275	Conference paper	Beker L.; Zorlu O.; Goksu N.; Kulah H.	Stimulating auditory nerve with MEMS harvesters for fully implantable and self-powered cochlear implants	2013	2013 Transducers and Eurosensors XXVII: The 17th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS and EUROSSENSORS 2013	10.1109/Transducers.2013.6627104	Institute of Electrical and Electronics Engineers Inc.	2013 17th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS and EUROSSENSORS 2013	06/16/2013-06/20/2013
276	Conference paper	Bahrieh G.; Koydemir H.C.; Erdem M.; Ozgur E.; Gunduz U.; Kulah H.	Dielectric characterization of Imatinib resistant K562 leukemia cells through electrorotation with 3-D electrodes	2013	Proceedings of IEEE Sensors	10.1109/ICSENS.2013.6688385	IEEE Computer Society	12th IEEE SENSORS 2013 Conference	11/04/2013-11/06/2013
277	Conference paper	Sonmezoglu S.; Alper S.E.; Akin T.	A high performance automatic mode-matched MEMS gyroscope with an improved thermal stability of the scale factor	2013	2013 Transducers and Eurosensors XXVII: The 17th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS and EUROSSENSORS 2013	10.1109/Transducers.2013.6627318	Institute of Electrical and Electronics Engineers Inc.	2013 17th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS and EUROSSENSORS 2013	06/16/2013-16/20/2013
278	Conference paper	Bahrieh G.; Erdem M.; Özgür E.; Gündüz U.; Kûlah H.	Dielectric analysis of changes in electric properties of doxorubicin resistant K562 leukemic cells through electrorotation with 3-D electrodes	2013	17th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2013		Chemical and Biological Microsystems Society	17th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2013	10/27/2013-10/31/2013
279	Conference paper	Yıldırım E.; Özgür E.; Kûlah H.	A droplet based multi-drug screening system controlled with electrostatic microvalves	2012	Proceedings of the 16th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2012		Chemical and Biological Microsystems Society	16th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2012	10/28/2012-11/01/2012
280	Conference paper	Denker R.; Muhtaroglu A.; Kulah H.	Empirical proof of concept for TE generation in mobile computers	2012	2012 International Conference on Energy Aware Computing, ICEAC 2012	10.1109/ICEAC.2012.6471011	Institute of Electrical and Electronics Engineers Inc.	3rd International Conference on Energy Aware Computing, ICEAC 2012	12/03/2012-12/05/2012
281	Conference paper	Beker L.; Muhtaroglu A.; Kûlah H.	A novel method for piezoelectric energy harvesting from keyboard	2012	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.915121	SPIE	Active and Passive Smart Structures and Integrated Systems 2012	03/12/2012-03/15/2012
282	Conference paper	Tatar E.; Torunbalci M.M.; Alper S.E.; Akin T.	A method and electrical model for the anodic bonding of SOI and glass wafers	2012	Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)	10.1109/MEMSYS.2012.6170095	Institute of Electrical and Electronics Engineers Inc.	2012 IEEE 25th International Conference on Micro Electro Mechanical Systems, MEMS 2012	01/29/2012-02/02/2012
283	Conference paper	Beker L.; Muhtaroglu A.; Özgüven H.N.; Kûlah H.	Finite element modeling of MEMS piezoelectric energy harvester	2012	Technical Proceedings of the 2012 NSTI Nanotechnology Conference and Expo, NSTI-Nanotech 2012			Nanotechnology 2012: Electronics, Devices, Fabrication, MEMS, Fluidics and Computational - 2012 NSTI Nanotechnology Conference and Expo, NSTI-Nanotech 2012	06/18/2012-06/18/2012
284	Conference paper	Keskin S.; Akin T.	The first fabricated dual-band uncooled infrared microbolometer detector with a tunable micro-mirror structure	2012	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.964551	SPIE	38th Conference on Infrared Technology and Applications	06/23/2012-04/27/2012
285	Conference paper	Rahimi A.; Zorlu Ö.; Muhtaroglu A.; Kûlah H.	An electromagnetic energy harvesting system for low frequency applications with a passive interface ASIC in standard CMOS	2012	Sensors and Actuators, A: Physical	10.1016/j.sna.2012.03.019	Elsevier B.V.		

#	Document Type	Authors	Title	Year	Source Title	DOI	Publisher	Conference Name	Conference Date
286	Conference paper	Sonmezoglu S.; Alper S.E.; Akin T.	An automatically mode-matched MEMS gyroscope with 50 Hz bandwidth	2012	Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)	10.1109/MEMSYS.2012.6170231	Institute of Electrical and Electronics Engineers Inc.	2012 IEEE 25th International Conference on Micro Electro Mechanical Systems, MEMS 2012	01/29/2012-02/02/2012
287	Conference paper	Uluşan H.; Gharehbaghi K.; Zorlu Ö.; Muhtaroglu A.; KulaH H.	A self-powered rectifier circuit for low-voltage energy harvesting applications	2012	2012 International Conference on Energy Aware Computing, ICEAC 2012	10.1109/ICEAC.2012.6471017	Institute of Electrical and Electronics Engineers Inc.	3rd International Conference on Energy Aware Computing, ICEAC 2012	12/03/2012-12/05/2012
288	Conference paper	Tepegoz M.; Oguz A.; Toprak A.; Serveli S.U.; Canga E.; Tanrikulu M.Y.; Akin T.	An uncooled microbolometer focal plane array using heating based resistance nonuniformity compensation	2012	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.964525	SPIE	38th Conference on Infrared Technology and Applications	04/23/2012-04/27/2012
289	Conference paper	Ceylan Koydemir H.; KulaH H.; Özgen C.; Tosun I.	Effects of solvents on dissolution of photoresist in parylene microchannels	2012	Technical Proceedings of the 2012 NSTI Nanotechnology Conference and Expo, NSTI-Nanotech 2012			Nanotechnology 2012: Electronics, Devices, Fabrication, MEMS, Fluidics and Computational - 2012 NSTI Nanotechnology Conference and Expo, NSTI-Nanotech 2012	06/18/2012-06/21/2012
290	Conference paper	Aydin O.; Akin T.	A bulk-micromachined fully-differential MEMS accelerometer with interdigitated fingers	2012	Proceedings of IEEE Sensors	10.1109/ICSENS.2012.6411038	Institute of Electrical and Electronics Engineers Inc.	11th IEEE SENSORS 2012 Conference	10/28/2012-10/31/2012
291	Conference paper	Lulec S.Z.; Kucuk S.E.; Battal E.; Okyay A.K.; Tanrikulu M.Y.; Akin T.	An analysis for the broad-band absorption enhancement using plasmonic structures on uncooled infrared detector pixels	2012	Proceedings of SPIE - The International Society for Optical Engineering	10.1117/12.964549	SPIE	38th Conference on Infrared Technology and Applications	04/23/2012-04/27/2012
292	Conference paper	Gharehbaghi K.; Uluşan H.; Zorlu Ö.; Muhtaroglu A.; KulaH H.	A fully integrated power management circuit for electromagnetic energy harvesting applications	2012	2012 International Conference on Energy Aware Computing, ICEAC 2012	10.1109/ICEAC.2012.6471023	Institute of Electrical and Electronics Engineers Inc.	3rd International Conference on Energy Aware Computing, ICEAC 2012	12/03/2012-12/05/2012
293	Conference paper	Zorlu Ö.; KulaH H.	A miniature and non-resonant vibration-based energy harvester structure	2012	Procedia Engineering	10.1016/j.proeng.2012.09.234	Elsevier Ltd	26th European Conference on Solid-State Transducers, EUROSSENSOR 2012	09/09/2012-09/12/2012
294	Conference paper	Yıldırım E.; KulaH H.; Arıkan M.A.S.	An electrostatically actuated parylene microvalve for lab-on-a-chip applications	2011	2011 16th International Solid-State Sensors, Actuators and Microsystems Conference, TRANSDUCERS'11	10.1109/TRANSDUCERS.2011.5969441	Institute of Electrical and Electronics Engineers Inc.	2011 16th International Solid-State Sensors, Actuators and Microsystems Conference, TRANSDUCERS'11	06/05/2011-06/09/2011
295	Conference paper	Rahimi A.; Zorlu O.; Muhtaroglu A.; KulaH H.	A vibration-based electromagnetic energy harvester system with highly efficient interface electronics	2011	2011 16th International Solid-State Sensors, Actuators and Microsystems Conference, TRANSDUCERS'11	10.1109/TRANSDUCERS.2011.5969876	Institute of Electrical and Electronics Engineers Inc.	2011 16th International Solid-State Sensors, Actuators and Microsystems Conference, TRANSDUCERS'11	06/05/2011-06/09/2011
296	Conference paper	Eroglu D.; Bayraktar E.; KulaH H.	A laterally resonating gravimetric sensor with uniform mass sensitivity and high linearity	2011	2011 16th International Solid-State Sensors, Actuators and Microsystems Conference, TRANSDUCERS'11	10.1109/TRANSDUCERS.2011.5969332	Institute of Electrical and Electronics Engineers Inc.	2011 16th International Solid-State Sensors, Actuators and Microsystems Conference, TRANSDUCERS'11	06/05/2011-06/09/2011
297	Conference paper	Sonmez U.; KulaH H.; Akin T.	A fourth order unconstrained $\Sigma\Delta$ capacitive accelerometer	2011	2011 16th International Solid-State Sensors, Actuators and Microsystems Conference, TRANSDUCERS'11	10.1109/TRANSDUCERS.2011.5969214	Institute of Electrical and Electronics Engineers Inc.	2011 16th International Solid-State Sensors, Actuators and Microsystems Conference, TRANSDUCERS'11	06/05/2011-06/09/2011

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298	Conference paper	Eminoglu B.; Alper S.E.; Akin T.	Novel, simple, and Q-independent self oscillation loop designed for vibratory MEMS gyroscopes	2011	2011 16th International Solid-State Sensors, Actuators and Microsystems Conference, TRANSDUCERS'11	10.1109/TRANSDUCERS.2011.5969590	Institute of Electrical and Electronics Engineers Inc.	2011 16th International Solid-State Sensors, Actuators and Microsystems Conference, TRANSDUCERS'11	06/05/2011-06/09/2011
299	Conference paper	Eminoglu B.; Alper S.E.; Akin T.	A new baseband equivalent model for sense mode dynamics and its effects on force-feedback controller design for MEMS gyroscopes	2011	Proceedings of IEEE Sensors	10.1109/ICSENS.2011.6127222	Institute of Electrical and Electronics Engineers Inc.	10th IEEE SENSORS Conference 2011, SENSORS 2011	10/28/2011-10/31/2011
300	Conference paper	Türkyılmaz S.; Zorlu Ö.; Muhtaroglu A.; Kùlah H.	An electromagnetic micro-power generator for low frequency vibrations with tunable resonance	2011	Procedia Engineering	10.1016/j.proeng.2011.12.180	Elsevier Ltd	25th Eurosensors Conference	09/04/2011-09/04/2011
301	Conference paper	Türkyılmaz S.; Kùlah H.; Muhtaroglu A.	A development tool for design and analysis of MEMS based EM energy scavengers	2010	2010 International Conference on Energy Aware Computing, ICEAC 2010	10.1109/ICEAC.2010.5702279	Institute of Electrical and Electronics Engineers Inc.	2010 International Conference on Energy Aware Computing, ICEAC 2010	12/16/2010-12/18/2010
302	Conference paper	Türkyılmaz S.; Kùlah H.; Muhtaroglu A.	Design and prototyping of second generation METU MEMS electromagnetic micro-power generators	2010	2010 International Conference on Energy Aware Computing, ICEAC 2010	10.1109/ICEAC.2010.5702292	Institute of Electrical and Electronics Engineers Inc.	2010 International Conference on Energy Aware Computing, ICEAC 2010	12/16/2010-12/18/2010
303	Conference paper	Topal E.T.; Kùlah H.; Muhtaroglu A.	Thin film thermoelectric energy harvesters for MEMS micropower generation	2010	2010 International Conference on Energy Aware Computing, ICEAC 2010	10.1109/ICEAC.2010.5702321	Institute of Electrical and Electronics Engineers Inc.	2010 International Conference on Energy Aware Computing, ICEAC 2010	12/16/2010-12/18/2010
304	Conference paper	Töreyin H.; Topal E.; Kùlah H.	A multi-source micro power generator employing thermal and vibration energy harvesting	2010	Procedia Engineering	10.1016/j.proeng.2010.09.321	Elsevier Ltd		
305	Conference paper	Sari I.; Balkan T.; Kùlah H.	An electromagnetic micro power generator for low frequency environmental vibration based on the frequency up-conversion technique	2009	Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)	10.1109/MEMSYS.2009.4805573	Institute of Electrical and Electronics Engineers Inc.	22nd IEEE International Conference on Micro Electro Mechanical Systems, MEMS 2009	01/25/2009-01/29/2009
306	Conference paper	Topalli E.S.; Topalli K.; Alper S.E.; Serin T.; Akin T.	Pirani vacuum gauges using silicon-on-glass and dissolved-wafer processes for the characterization of MEMS vacuum packaging	2009	IEEE Sensors Journal	10.1109/JSEN.2008.2012200	Institute of Electrical and Electronics Engineers Inc.		
307	Conference paper	Alper S.E.; Sahin K.; Akin T.	An analysis to improve stability of drive-mode oscillations in capacitive vibratory mems gyroscopes	2009	Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)	10.1109/MEMSYS.2009.4805508	Institute of Electrical and Electronics Engineers Inc.	22nd IEEE International Conference on Micro Electro Mechanical Systems, MEMS 2009	01/25/2009-01/29/2009
308	Conference paper	Yılmaz G.; Çiftlik A.T.; Kùlah H.	A dielectrophoretic cell/pMakale separator fabricated by spiral channels and concentric gold electrodes	2009	TRANSDUCERS 2009 - 15th International Conference on Solid-State Sensors, Actuators and Microsystems	10.1109/SENSOR.2009.5285560	Institute of Electrical and Electronics Engineers Inc.	TRANSDUCERS 2009 - 15th International Conference on Solid-State Sensors, Actuators and Microsystems	06/21/2009-06/25/2009
309	Conference paper	Boğa B.; Ocak I.E.; KPlah H.; Akin T.	Modeling of a capacitive $\Sigma$ - $\delta$ MEMS accelerometer system including the noise components and verification with test results	2009	Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)	10.1109/MEMSYS.2009.4805509	Institute of Electrical and Electronics Engineers Inc.	22nd IEEE International Conference on Micro Electro Mechanical Systems, MEMS 2009	01/25/2009-01/29/2009
310	Conference paper	Yıldırım E.; Koyuncuoğlu A.; Kùlah H.	An electrostatic parylene microvalve for controlling in-plane flow	2009	Proceedings of Conference, MicroTAS 2009 - The 13th International Conference on Miniaturized Systems for Chemistry and Life Sciences		Chemical and Biological Microsystems Society	13th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2009	11/01/2009-11/05/2009
311	Review	Tarım E.A.; Anil İnevi M.; Ozkan I.; Kecili S.; Bilgi E.; Baslar M.S.; Özcivici E.; Oksel Karakus C.; Tekin H.C.	Microfluidic-based technologies for diagnosis, prevention, and treatment of COVID-19: recent advances and future directions	2023	Biomedical Microdevices	10.1007/s10544-023-00649-z	Springer		

#	Document Type	Authors	Title	Year	Source Title	DOI	Publisher	Conference Name	Conference Date
312	Review	Torul H.; Arslan Z.Ç.; Tezcan T.; Kayış E.Ç.; Çalınıcı M.; Gumustas A.; Yıldırım E.; Kùlah H.; Tamer U.	Microfluidic-based blood immunoassays	2023	Journal of Pharmaceutical and Biomedical Analysis	10.1016/j.jpba.2023.115313	Elsevier B.V.		
313	Review	Tevlek A.; Kecili S.; Ozcelik O.S.; Kulah H.; Tekin H.C.	Spheroid Engineering in Microfluidic Devices	2022	ACS Omega	10.1021/acsomega.2c06052	American Chemical Society		
314	Review	Kılıçarslan B.; Bozyel I.; Gökçen D.; Bayram C.	Sustainable Macromolecular Materials in Flexible Electronics	2022	Macromolecular Materials and Engineering	10.1002/mame.202100978	John Wiley and Sons Inc		
315	Review	Tarım E.A.; Karakuzu B.; Oksuz C.; Sarıgil O.; Kizilkaya M.; Al-Ruweidi M.K.A.A.; Yalçın H.C.; Özcivici E.; Tekin H.C.	Microfluidic-based virus detection methods for respiratory diseases	2021	Emergent Materials	10.1007/s42247-021-00169-7	Springer Nature		
316	Review	Çağlayan Z.; Yalçın Y.D.; Kùlah H.	A prominent cell manipulation technique in biomems: Dielectrophoresis	2020	Micromachines	10.3390/mi11110990	MDPI AG		
317	Review	Adiguzel Y.; Kulah H.	Breath sensors for lung cancer diagnosis	2015	Biosensors and Bioelectronics	10.1016/j.bios.2014.10.023	Elsevier Ltd		
318	Review	Demircan Y.; Özgür E.; Kùlah H.	Dielectrophoresis: Applications and future outlook in point of care	2013	Electrophoresis	10.1002/elps.201200446	Wiley-VCH Verlag		
319	Review	Adiguzel Y.; Kulah H.	CMOS cell sensors for point-of-care diagnostics	2012	Sensors (Switzerland)	10.3390/s120810042	Multidisciplinary Digital Publishing Institute		
320	Review	Ceylan Koydemir H.; Kùlah H.; Özgen C.; Alp A.; Haşçelik G.	MEMS biosensors for detection of methicillin resistant Staphylococcus aureus	2011	Biosensors and Bioelectronics	10.1016/j.bios.2011.07.071	Elsevier Ltd		

