

#	Document Type	Authors	Title	Year	Source Title	DOI	Publisher	Conference Name	Conference Date
1	Book chapter	Cemre Oksuz, Ergün Alperay Tarım, H.Ahsen Ozcan, Sadık Koc, H. Cumhuri Tekin	Sample preparation using microfluidic technologies for non-invasive tests - Reference Module in Chemistry, Molecular Sciences and Chemical Engineering	2025	Academic Press	9780124095472	Elsevier		
2	Book chapter	FİDAN B. B., KOÇAK M., DEMİRDIŞ İ., AYDINLI H., ÇİFTÇİ E., KAPLAN O., BOYACIOĞLU Ö., KORKUSUZ P., ÇELEBİER M., KORKUSUZ F.	Exploring the Cutting Edge of Platelet-Rich Plasma Omics - Nano-Biomaterials in Tissue Repair and Regeneration	2025		978-981-96-3807-9	Springer Singapore		
3	Article	Elif Çalık Kayış, Hilal Torul, Sevda Akay Sazaklıoğlu, Hüseyin Çelikkan, Hilal Kabadayı Ensarioğlu, Bilal Habes Gumus, Hafize Seda Vatanserver, Uğur Tamer	Electrochemically generated paper SERS substrate for detection of exosome in urine samples	2025	Sensors and Actuators B: Chemical	10.1016/j.snb.2024.137103	Elsevier		
4	Article	Merve Eryılmaz, Sibel İlbasım-Tamer, Sallahuddin Panhwar, Emine Kübra Tayyarcan, İsmail Hakkı Boyacı, Zekiye Suludere, Demet Çetin, Adem Zengin, Ender Yıldırım, Uğur Tamer	Rapid bacterial detection through microfluidic integration with a glucometer	2025	Talanta	10.1016/j.bioelechem.2025.108936	Elsevier		
5	Article	Merve Calımcı, Tuğba Tezcan, Emine Kubra Tayyarcan, Kubra Guven, İsmail Hakkı Boyacı, Uğur Tamer	Bacteriophage-based live bacteria detection for rapid infection diagnosis	2025	Talanta	10.1016/j.talanta.2025.127569	Elsevier		
6	Article	İrem Kolay, Tuğba Hacıfendioglu, Firdevs Aydın, Erol Yıldırım, Demet Asil	Theoretical and Experimental Investigation of the Ligand Directed Assembly and Photovoltaic Performance of PbSe Nanorods	2025	Advanced Materials Interfaces	10.1002/admi.202500127	Wiley		
7	Article	Firdevs Aydın, Batuhan Uzun, Meysam Mirzaei-Saatlo, Elnaz Asghari, Demet Asil	Electrodeposited and in situ carbon quantum dot embedded CdS thin films as electron transport layers	2025	Synthetic Metals	10.1016/j.synthmet.2025.117939	Elsevier		
8	Article	Cemre Oksuz, Can Bicmen, H. Cumhuri Tekin	Dynamic fluidic manipulation in microfluidic chips with dead-end channels through spinning: the Spinocip technology for hematocrit measurement, white blood cell counting and plasma separation	2025	Lab on a Chip	10.1039/D4LC00979G	Royal Society of Chemistry		
9	Article	Oyku Doyran Ince, H. Cumhuri Tekin	MagSity platform: a hybrid magnetic levitation-based lensless holographic microscope platform for liquid density and viscosity measurements	2025	Lab on a Chip	10.1039/D5LC00144G	Royal Society of Chemistry		
10	Article	Alperen Alpural, İlgin Kimiz-Gebologlu, Mayur Parekh, Esra Imamoglu, Zulfikur Ali, Ozlem Yesil-Celiktas	Systematic Review on the Role of Microfluidic Platforms in Advancing Scalable and Precise Microbial Bioprocessing	2025	Engineering	10.1002/elsc.70034	Wiley		
11	Article	Aysel Tomak, Pelin Sağlam-Metiner, Reyhan Coban, Ceyda Oksel-Karakus, Ozlem Yesil-Celiktas	Shape and surface modification dependent cellular interactions of gold nanoparticles in a 3D blood-brain-barrier supported neurospheroid model	2025	Tissue and Cell	10.1016/j.tice.2025.103080	Elsevier		
12	Article	Naz Celiktas, Pelin Sağlam-Metiner, Basar Dogan, Emine Alarcin, Nilav Gizli, Ozlem Yesil-Celiktas	Microcrystalline cellulose and boric acid functionalized hydrogel for differentiation of bone marrow stem cells: biocompatibility, hemocompatibility and protein adsorption	2025	International Journal of Biological Macromolecules	10.1016/j.ijbiomac.2025.146435	Elsevier		
13	Article	Utku Devamoglu, Yagmur Arslan, Leila Sabour-Takanlou, Cigir Biray-Avcic, Ozlem Yesil-Celiktas	Dual role of electrical stimulation and a biomimetic matrix in neural differentiation within a microfluidic platform	2025	Biomaterials Science	10.1039/d4bm01702a	Royal Society of Chemistry		
14	Article	Esra Atalay-Sahar, Ece Yıldız-Ozturk, Su Ozgur, Arzu Aral, Emre Dayanc, Tuncay Goksel, Ralph Meuwissen, Ozlem Yesil-Celiktas, Ozlem Goksel	Novel Approach Methodologies in Modeling Complex Bioaerosol Exposure in Asthma and Allergic Rhinitis Under Climate Change	2025	Expert Reviews in Molecular Medicine	10.1017/erm.2025.7	Cambridge University Press		
15	Article	Betul Karakuzua, H. Cumhuri Tekin	Creatinine-on-a-chip: colorimetric ELISA-based serum creatinine detection in a microfluidic device	2025	Analyst	10.1039/D5AN00650C	Royal Society of Chemistry		

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16	Book chapter	Necdet Sağlam, Feza Korkusuz, Mesut Şam	Synovial Joint Fluid Omics Researches in Osteoarthritis: An Affinity Chromatography-Based Perspective - Nano-Biomaterials in Tissue Repair and Regeneration	2025	Nano-Biomaterials in Tissue Repair and Regeneration	978-981-96-3807-9	Springer		
17	Article	Damla Arslantunalı-Sahin Dilara Goksu Tamay, Seyma Isik, Gozde Ervin Kole, Ekin Erdoğan, Ecem Oyku Gungor, Ali Can Atik, Haluk Kulah, Deniz Yucel, Nesrin Hasirci, Vasif Hasirci	Nerve tissue model on a micropatterned surface: Axon guidance and neural regeneration.	2025	Journal of Materials Science: Materials in Medicine	10.1007/s10856-025-06959-3	Springer		
18	Article	Emine Yıldırım, Tugba Tezcan, Erdem Bayraktar, Ender Yıldırım, Ugur Tamer	Smartphone assisted colorimetric detection of luteinizing hormone in 3D-printed remote automated magnetic particle-driven system with microchamber arrays	2025	Microchimica Acta	10.1007/s00604-025-07764-z	Springer		
19	Article	Mert Doğan, Ozlem Topcu, Hasan Ulsan, M. Berat Yuksel, M. Birol Uğur, Haluk Kūlah	Power-efficient ramped stimulation in a fully implantable cochlear implant	2025	Scientific Reports	10.1038/s41598-025-25077-2	Nature		
20	Book chapter	Vildan Şanko, Meltem Okan, Cem Erkmen	Carbon Sensor Devices for Disease Detection - Handbook of Carbon Sensors Understanding and Applications	2025	Handbook of Carbon Sensors	9781003500322	CRC Press		
21	Book chapter	Vildan Şanko, Cem Erkmen	Voltammetric Sensors for Health - Advancements in Voltammetry for Biosensing Applications	2025	Advancements in Voltammetry for Biosensing Applications	9819625947	Springer		
22	Article	Merve Bulut , Selin Önen , Merve Gizer , Cansel Özmen , Petek Korkusuz , Nilgün Öksel	Effect of Activated Platelet-Rich Plasma on In Vitro Spermatogenesis in Testicular Organoids	2025	Journal of Uludag University Medical Faculty	10.32708/uutfd.1764346	Uludag University		
23	Article	Melih Oral, Emin Suha Dedeogullari, Selin Onen, Cansu Ozdemir, Bihter Muratoglu, Zeynep Caglar, Halil Murat Aydin, Duygu Uckan Cetinkaya, Petek Korkusuz & Egemen Turhan	Evaluation of cartilage regeneration using a hybrid bilayer scaffold based on omentum: evidence of limited efficacy	2025	Journal of Orthopaedic Surgery and Research	10.1186/s13018-025-06347-1	Springer Nature		
24	Article	Selin Önen, Merve Gizer, İmran Özge Çolak, Petek Korkusuz	Bioengineering Approaches for Male Infertility: From Microenvironmental Regeneration to in vitro Fertilization.	2025	Cell Biology and Translational Medicine, Volume 24	10.1007/5584_2024_844	Springer		
25	Article	Özge Boyacıoğlu, Berfin Deniz Kalali, Ege Tongün & Petek Korkusuz	A Niche-Based Perspective to Stem and Cancer Stem Cells of the Lung.	2025	Cell Biology and Translational Medicine, Volume 26	10.1007/5584_2025_858	Springer		
26	Article	Sevil Köse, Cem Varan, Tuba Reçber, Emirhan Nemutlu, Erem Bilensoy & Petek Korkusuz	Preparation and Characterization of Nanoparticles for the Controlled Release of the Endocannabinoid 2-Arachidonoylglycerol (2-AG).	2025	Methods in Molecular Biology	10.1007/7651_2025_636	Springer		
27	Article	İmran Özge Çolak, Berfin Deniz Kalali, Ege Tongün, Özge Boyacıoğlu, Selin Önen, Merve Gizer & Petek Korkusuz	A Comparative Ultracentrifugation Protocol for Isolating, Purifying, Selecting, and Characterizing Mouse and Human Exosomes from Adherent and Non-adherent Healthy and Cancer Cells	2025	Methods in Molecular Biology	10.1007/7651_2025_689	Springer		
28	Article	Özge Boyacıoğlu, Berfin Deniz Kalali, Tuba Reçber, Dilek Gelen-Gungor, Emirhan Nemutlu, İpek Eroğlu, Nedret Kılıç & Petek Korkusuz	ACPA prevents lung fibroblast-to-CAF transformation by reprogramming the tumor microenvironment through NSCLC-derived exosomes.	2025	Scientific Reports	10.1038/s41598-025-29726-4	Springer Nature		
29	Article	Özgür Doğuş Erol, Mehmet Emin Şeker, Şimal Şenocak, Necef Özbek, Hasan Basri Kılıç, Yusuf Çetin Kocaefe, Merve Gizer, Petek Korkusuz, Niek Peter van Til & Fatima Aerts-Kaya	Assessment of Potential Side Effects Related To <i>RAB27A</i> Gene Therapy in Stem Cells	2025	Stem Cell Reviews and Reports	10.1007/s12015-025-10998-2	Springer		
30	Article	Ozlem Topcu, Süleyman Nahit Sendur, Hilal Dincer D'Alessandro, Merve Ozbal Batuk, and Gonca Sennaroglu	Temporal Sensitivity in Patients With Type 1 Diabetes Mellitus and Insights Into Their Everyday Auditory Performance	2025	Journal of Speech, Language, and Hearing Research	10.1044/2025_JSLHR-24-00554	ASHA		



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31	Article	Kubra Guven, Elif Çalık Kayış, Ilkay Erdogan Orhan, Mustafa Aslan, Ismail Hakki Boyaci and Uğur Tamer	A novel approach for rapid quantification of food supplement components using NIR spectroscopy and spectral data transfer	2025	Analyst	10.1039/d5an00402k	Royal Society of Chemistry		
32	Article	Mert Kerem Ulku, Aysen Gumustas, Ugur Tamer, M. A. Sahir Arıkan, Ender Yildirim	A SERS Substrate Based on Ultrasonic Stacking of Nanopowders on Thermoplastics	2025	Journal of Raman Spectroscopy	10.1002/jrs.70005	Wiley		
33	Article	Busra Canan Aslan, Esra Ekiz, Emine Kubra Tayyarcan, Ismail Hakki Boyaci, Aysen Gumustas, Ender Yildirim, Ugur Tamer, Ebru Evren, Elcin Ezgi Ahi, Ramón Martínez-Mañez, and Mehmet Gokhan Caglayan*	Bacteriophage-Gated Optical Sensor for Bacteria Detection	2025	Analytical Chemistry	10.1021/acs.analchem.5c00780	ACS Publications		
34	Article	Bekir Gürel Dimez, Tayfun Akin, Yunus Eren Kalay	Temperature-dependent evolution of Al-Ge microstructures for wafer-level vacuum packaging of MEMS devices	2025	Sensors and Actuators A: Physical	10.1016/j.sna.2025.116281	Elsevier		
35	Article	Levend Karaçoban, Merve Gizer, Bilge Başak Fidan, Ozan Kaplan, Mustafa Çelebier, Petek Korkusuz, Egemen Turhan, Feza Korkusuz	Donor tissue type alters the effects of mesenchymal stem cells on human osteoarthritic chondrocytes and their metabolomic profiles	2025	Research in Sports Medicine An International Journal	10.1080/15438627.2025.2467871	Routledge Taylor & Francis Group		
36	Article	Merve Gizer, Selin Önen, Özgür Doğuş Erol, Fatima Aerts-Kaya, Tuba Reçber, Emirhan Nemutlu, Petek Korkusuz	Endocannabinoid system upregulates the enrichment and differentiation of human iPSC-derived spermatogonial stem cells via CB2R agonism	2025	Biological Research	10.1186/s40659-025-00596-4	BMC		
37	Article	Gözde Nur Erkan, Umut Tekin, Özge Boyacıoğlu, Petek Korkusuz, Kaan Orhan, Betül Kirman, and Mustafa Ercüment Önder	Does dexmedetomidine induce bone regeneration in cranial defects in rabbits?	2025	Biotechnic & Histochemistry	10.1080/10520295.2025.2470625	Taylor&Francis		
38	Article	Özge Boyacıoğlu, Cem Varan, Erem Bilensoy, Zaliha Gamze Aykut, Tuba Reçber, Emirhan Nemutlu, Nedret Kılıç, Petek Korkusuz	A novel injectable nanotherapeutic platform increasing the bioavailability and anti-tumor efficacy of Arachidonylcyclopropylamide on an ectopic non-small cell lung cancer xenograft model: A randomized controlled trial	2025	International Journal of Pharmaceutics	10.1016/j.ijpharm.2024.125153	Elsevier		
39	Article	Dilek Öztürk, Vildan Sanko, Alireza Khataee, Erhan Demirbaş, Mahmut Durmuş, Serkan Yeşilot, Zafer Kılıç, Ümit Demirbaş, Ahmet Şenocak and Süreyya Oğuz Tümay	A pyrene-modified carbon nanodot as a fluorescence nanosensor for nitroaniline herbicide detection and smartphone-assisted RGB analysis using hydrogel detection kits	2025	Analyst	10.1039/d5an00624d	Royal Society of Chemistry		
40	Article	Vildan Sanko, H. Cumhuri Tekin	Electrochemical Sensors for Rapid Cardiovascular Disease Diagnostics	2025	ACS Sensors	10.1021/acssensors.5c01921	ACS Publications		
41	Article	Ahmet Şenocak, Ahmet Akif Kızılkurtlu, Vildan Sanko, Süreyya Oğuz Tümay, Ümit Demirbaş	Electrochemical PSA Detection Performance of an Innovative Immunosensor	2025	Langmuir	10.1021/acs.langmuir.5c02632	ACS Publications		
42	Article	Ahmet Şenocak, Erdem Sari, Ahmet Akif Kızılkurtlu, Süreyya Oğuz Tümay, Vildan Sanko, Bekir Çakıroğlu, Ümit Demirbaş, Erhan Demirbaş	Electrospun polyferrocene-thiophene and MoS ₂ @PDA@CuCoFe ₂ nanoparticle-based electrochemical immunosensor for HE4 detection in ovarian cancer diagnosis	2025	Microchemical Journal	10.1016/j.microc.2025.113992	Elsevier		
43	Article	Vildan Sanko, İpek Ömeroğlu, Ahmet Şenocak, Erhan Demirbaş, Erdem Sari, Süreyya Oğuz Tümay	Smartphone-Compatible Electrospun Nanofiber Sensors for Fluorescent Detection of Picric Acid using Anthracene-Functionalized Halloysite Nanotubes	2025	Microchemical Journal	10.1016/j.microc.2025.113372	Elsevier		
44	Article	Derya Bal Altuntaş, Vildan Sanko, Filiz Kuralay	MoS ₂ -WS ₂ decorated carbon nanotubes amplified electro-nanosensor for label-free voltammetric detection of DNA	2025	Journal of Pharmaceutical and Biomedical Analysis	10.1016/j.jpba.2025.116780	Elsevier		
45	Article	Vildan Sanko, Ozge Surucu, Filiz Kuralay	Progress and future directions in determining drugs using spectroelectrochemical methods	2025	Journal of Pharmaceutical and Biomedical Analysis Open	10.1016/j.jpba.2025.100067	Elsevier		

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46	Article	Vildan Sanko, İpek Ömeroğlu, Ahmet Şenocak, Süreyya Oğuz Tümay	Highly Selective Pyrene-Anchored Halloysite Nanotube for Fluorometric Determination of 2,4,6-Trinitrophenol in Environmental and Food Samples	2025	ACS Omega	10.1021/acsomega.4c08857	ACS Publications		
47	Article	Meltem Okan, Zeynep Çağlayan Arslan, Firdevs Aydın, Demet Asil, Haluk Külâh	Synergistic hybrid nanostructures for Ultra-Sensitive photoelectrochemical detection of hepatocellular carcinoma ctDNA	2025	Microchemical Journal	10.1016/j.microc.2024.112547	Elsevier		
48	Article	Zeynep Çağlayan Arslan, Meltem Okan, Haluk Külâh	Pre-enrichment-free detection of hepatocellular carcinoma-specific ctDNA via PDMS and MEMS-based microfluidic sensor	2024	Microchimica Acta	10.1007/s00604-024-06315-2	Springer Nature		
49	Report	E. Alperay Tarım, H. Cumhuri Tekin	Colorimetric detection of serum creatinine on a miniaturized platform using hue-saturation-value space analysis	2024	Scientific Reports	10.1038/s41598-024-69719-3	Springer Nature		
50	Article	Betul Karakuzu, Muge Anil İnevi, E. Alperay Tarım, Oyku Sarıgil, Meltem Guzelgulgen, Seren Kecili, Selin Cesmeli, Sadik Koc, M. Semih Baslar, Ceyda Oksel Karakus, Engin Ozcivici & H. Cumhuri Tekin	Magnetic levitation-based miniaturized technologies for advanced diagnostics	2024	Emergent Materials	10.1007/s42247-024-00762-6	Springer Nature		
51	Article	Ece Miser-Salihoğlu, Hasan İlhan, Uğur Tamer, Sevgi Akaydin	Evaluation of Breast Cancer Gene Type 1 (BRCA1) Protein Levels in Cancer Tissue Using Surface-Enhanced Raman Spectroscopy	2024	Applied Spectroscopy	10.1177/00037028241297716	Sage Journals Home		
52	Article	Andisheh Choupania, Elif Seval Temucina, Eda Ciftcia, Feray Bakanb, Busra Tugba Camicb, Guralp Ozkocb, Meltem Sezenb, Petek Korkusuzd, Feza Korkusuz and Bekir Bediz	Design of poly(vinyl pyrrolidone) and poly(ethylene glycol) microneedle arrays for delivering glycosaminoglycan, chondroitin sulfate, and hyaluronic acid	2024	Journal of Biomaterials Science, Polymer Edition	10.1080/09205063.2024.2392914	Taylor&Francis		
53	Article	Muhammed Berat Yüksel, Ali Can Atik, Haluk Külâh	Piezoelectric Multi-Channel Bilayer Transducer for Sensing and Filtering Ossicular Vibration	2024	Advanced Science	10.1002/adv.202308277	Wiley		
54	Article	Ozlem Goksel, Meryem Irem Sipahi, Sena Yanasik, Pelin Saglam-Metiner, Sema Benzer, Leila Sabour-Takanlou, Maryam Sabour-Takanlou, Cigir Biray-Avci, Ozlem Yesil-Celiktas	Comprehensive analysis of resilience of human airway epithelial barrier against short-term PM2.5 inorganic dust exposure using in vitro microfluidic chip and ex vivo human airway models	2024	Allergy	10.1111/all.16179	Wiley		
55	Article	Feyza Pirim, Ali Can Atik, Muhammed Berat Yüksel, Akin Mert Yılmaz, Mehmet Birol Uğur, Selçuk Tunali, Aykan Batu, Mahmut Kamil Aslan, Mehmet Bülent Özer, Haluk Külâh	Multichannel multimodal piezoelectric middle ear implant concept based on MEMS technology for next-generation fully implantable cochlear implant applications	2024	Biosensors and Bioelectronics: X	10.1016/j.biosx.2024.100471	Elsevier		
56	Book chapter	Selin ÖNEN, Petek KORKUSUZ	Trauma: Fracture Healing and Pathophysiology of the Pseudoarthrosis	2024	Pediatric Orthopedics Complications and Management	978-625-395-243-3	Türkiye Klinikleri		
57	Article	Hasan Uluşan, M. Berat Yüksel, Özlem Topçu, H. Andaç Yiğit, Akin M. Yılmaz, Mert Doğan, Nagihan Gülhan Yasar, İbrahim Kuyumcu, Aykan Batu, Nebil Göksu, M. Birol Uğur & Haluk Külâh	A full-custom fully implantable cochlear implant system validated in vivo with an animal model	2024	Communications Engineering	10.1038/s44172-024-00275-4	Nature		
58	Article	Sevil Köse, Cem Varan, Selin Önen, Emirhan Nemutlu, Erem Bilensoy & Petek Korkusuz	2-AG-loaded and bone marrow-targeted PCL nanoparticles as nanoplatforams for hematopoietic cell line mobilization	2024	Stem Cell Research & Therapy	10.1186/s13287-024-03902-1	Springer Nature Link		
59	Article	Atakan Tevlek	The role of decellularized cell derived extracellular matrix in the establishment and culture of <i>in vitro</i> breast cancer tumor model	2024	Biomedical Materials	10.1088/1748-605X/ad2378	IOP Science		
60	Article	Gulsah Demirhan Aydın, Orhan Sevket Akar, Tayfun Akin	Wafer Level Vacuum Packaging of MEMS-Based Uncooled Infrared Sensors	2024	Micromachines	10.3390/mi15080935	MDPI		

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61	Article	Pelin Saglam-Metiner, Sena Yanasik, Yusuf Caglar Odabasi, Jennifer Modamio, Moritz Negwer, Cigir Biray-Avci, Ayse Guler, Ali Erturk, Ender Yildirim & Ozlem Yesil-Celiktas	ICU patient-on-a-chip emulating orchestration of mast cells and cerebral organoids in neuroinflammation	2024	Communications Biology	10.1038/s42003-024-07313-z	Nature		
62	Article	Merve Gizer, Selin Önen & Petek Korkusuz	The Evolutionary Route of in vitro Human Spermatogenesis: What is the Next Destination?	2024	Stem Cell Reviews and Reports	10.1007/s12015-024-10726-2	Springer Nature Link		
63	Article	Burcu Pervin, Merve Gizer, Mehmet Emin Şeker, Özgür Doğuş Erol, Sema Nur Gür, Ece Gizem Polat, Bahar Değirmenci, Petek Korkusuz, Fatima Aerts-Kava	Bone marrow mesenchymal stromal cells support regeneration of intestinal damage in a colitis mouse model, independent of their CXCR4 expression	2024	CTS Clinical and Translational Science	10.1111/cts.13821	Wiley		
64	Article	UĞUR KÖROĞLU, NECDET SAĞLAM, UĞUR TAMER, RAMAZAN AKCAN, İSMAİL HAKKI BOYACI, EYLÜL EVRAN	Identification of blood at simulated crime scenes using silver nanoparticles with SERS	2024	Turkish Journal of Chemistry	10.55730/1300-0527.3687	Tübitak		
65	Article	Sallahuddin Panhwar, Hüseyin Çelikkın, Eylül Evran, Esra Ekiz, Kubra Ozkan Hukum, Demet Çetin, Zekiye Suludere, İsmail Hakki Boyacı, Uğur Tamer	Phage probe on RAFT polymer surface for rapid enumeration of <i>E. coli</i> K12	2024	Bioelectrochemistry	10.1016/j.bioelechem.2024.108785	Elsevier		
66	Article	Tugba Tezcan, Merve Calimci, İsmail Hakki Boyacı, Ugur Tamer	UV-ozone treated glass fiber based lateral flow DNA extraction platform integrated with LAMP for rapid detection of pathogen bacteria in whole blood	2024	Microchemical Journal	10.1016/j.microc.2024.111487	Elsevier		
67	Article	Sevda Akay Sazaklioglu, Hilal Torul, Uğur Tamer, Hilal Kabadayi Ensarioglu, Hafize Seda Vatansever, Bilal H Gumus, Hüseyin Çelikkın	Sensitive and reliable lab-on-paper biosensor for label-free detection of exosomes by electrochemical impedance spectroscopy	2024	Microchimica Acta	10.1007/s00604-024-06644-2	Springer Nature Link		
68	Article	Batuhan Uzun, Demet Asil	Unveiling the potential of direct synthesized PbS CQD ink based solar cells through numerical simulation	2024	Scientific Reports	10.1038/s41598-024-75981-2	Nature		
69	Article	Taskin Çamurcu, Vildan Sanko, İpek Omeroglu, Ahmet Senocak	Sulfonated-polypyrrole aniline/polyaniline composite fortified with Cu-QD@ZIF8 as an electrochemical enzymatic urea biosensor	2024	Analytical Methods	10.1039/d4ay01397b	Royal Society of Chemistry		
70	Article	Pelin Saglam-Metiner, Ender Yildirim, Can Dincer, Onur Basak & Ozlem Yesil-Celiktas	Humanized brain organoids-on-chip integrated with sensors for screening neuronal activity and neurotoxicity	2024	Microchimica Acta	10.1007/s00604-023-06165-4	Springer Nature Link		
71	Article	Ender Yildirim, Mert Kerem Ulku, M. A. Sahir Arıkan	Utilization of cross-correlation function for assessment of replication quality in ultrasonic embossing of microchannels on polymethyl methacrylate	2024	Polymer Engineering and Science	10.1002/pen.26764	Wiley		
72	Article	Buket Şahin, Begüm Şen Doğan, Ebru Özgür, Özge Zorlu, Ender Yildirim & Haluk Külah	A microfluidic platform for real-time enumeration and high accuracy retrieval of a very low number of cells	2024	Microfluidics and Nanofluidics	10.1007/s10404-024-02767-3	Springer Nature Link		
73	Article	İpek Ömeroğlu, Vildan Sanko, Ahmet Şenocak and Süreyya Oğuz Tümay	The preparation of a fluorescent dual-modality nanosensor for the discrimination and determination of biothiols in real samples and its practical detection kit	2024	Analytical Methods	10.1039/d4ay01025f	Royal Society of Chemistry		
74	Article	İpek Ömeroğlu, Vildan Sanko, Ahmet Şenocak, Süreyya Oğuz Tümay	Two-Emission Channel Hybrid Nanosensors Based on BODIPY-Appended Nanocrystalline Cellulose for Determination of Biothiols	2024	ACS Applied Nano Materials	10.1021/acsanm.4c03168	ACS Publications		
75	Article	Vildan Sanko, Ahmet Şenocak, Serkan Yeşilot, Süreyya Oğuz Tümay	The fabrication of a hybrid fluorescent nanosensing system and its practical applications via film kits for the selective determination of mercury ions	2024	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	10.1016/j.saa.2024.124677	Elsevier		
76	Article	Cem Erkmen, Vildan Sanko, Bengi Ozgun Ozturk, Jennifer Quinchia, Jahir Orozco, Filiz Kuralay	Mesoporous silica-based electrochemical biosensors in the determination of cancer biomarkers: Current progress on analytical performance and future trends	2024	TrAC Trends in Analytical Chemistry	10.1016/j.trac.2024.117876	Elsevier		

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77	Book chapter		Recent trends and perspectives on electrochemical sensors for environmental monitoring	2024	Recent Trends and Perspectives on Electrochemical Sensors for Environmental	978-0-443-13388-6	Elsevier		
78	Article	Ezgi Salmanli, Tugba Tezcan, Taner Karaoglu	A novel lateral flow immunochromatographic assay using a recombinant VP2 antigen for total antibody detection of canine parvovirus-2	2024	Analytical Methods	10.1039/D3AY01870A	Royal Society of Chemistry		
79	Article	Aliakbar Ebrahimi, Kutay Icoz, Reza Didarian, Chih-Hsin Shih, E. Alperay Tarim, Behzad Nasser, Ali Akpek, Berivan Cecen, Ayca Bal-Ozturk, Kadri Güleç, Yi-Chen Ethan Li, Steven Shih, Burcu Sirma Tarim, H. Cumhuri Tekin, Emine Alarçin, Mehdi Tayybi-Azar, Hamed Ghorbanpoor, Ceren Özel, Ayla Eker Sarıboyacı, Fatma Dogan Guzel, Nicole Bassous, Su Ryon Shin, Huseyin Avcı	Molecular Separation by Using Active and Passive Microfluidic chip Designs: A Comprehensive Review	2024	Advanced Materials Interfaces	10.1002/admi.202300492	Wiley		
80	Article	Kubra Ozkan Hukum, Tugba Tezcan, Ezgi Salmanli, Ugur Tamer	New polymer brush-coated monodisperse magnetic nanoparticles prepared via interface-mediated RAFT polymerization for high-throughput DNA extraction from pathogen bacteria	2024	Separation and Purification Technology	10.1016/j.seppur.2023.125867	Elsevier		
81	Article	Begum Sen-Dogan 1, Mehmet Alper Demir, Buket Sahin, Ender Yildirim, Gizem Karayalcin, Sebnem Sahin, Ege Mutlu, Taylan Berkin Toral, Ebru Ozgur, Ozge Zorlu, Haluk Kulah	Analytical Validation of a Spiral Microfluidic Chip with Hydrofoil Shaped Pillars for the Enrichment of Circulating Tumor Cells	2023	circulating tumor cell (CTC) separation	10.3390/bios13100938	MDPI		
82	Article	AtakanTevlek, SerenKecili, OzgeS.Ozcelik, HalukKulah, H.CumhuriTekin	Spheroid Engineering in Microfluidic Devices	2023	Microfluidic Devices	10.1021/acsomega.2c06052	ACS Omega		
83	Article	Hilal Torul, Zeynep Çağlayan Arslan, Tuğba Tezcan, Elif Çalık Kayış, Merve Çalimci, Aysen Gumustas, Ender Yildirim, Haluk Kùlah, Uğur Tamer	Microfluidic-based blood immunoassays	2023	Immunoassay Microfluidics Point of care Optical & electrochemical detection Blood	10.1016/j.jpba.2023.115313	Elsevier Ltd		
84	Article	Seren Kecili, Esra Yilmaz, Ozge Solmaz Ozcelik, Muge Anil-Inevi, Zehra Elif Gunyuz, Ozden Yalcin-Ozuysal, Engin Ozcivici, H. Cumhuri Tekin	μ DACS platform: A hybrid microfluidic platform using magnetic levitation technique and integrating magnetic, gravitational, and drag forces for density-based rare cancer cell sorting	2023	Hybrid cell sorting Magnetic levitation Circulating tumor cells White blood cells Label-free Density Biophysical biomarkers	10.1016/j.biosx.2023.100392	Elsevier Ltd		
85	Article	Sunay Dilara Ekim, Firdevs Aydın, Görkem Eylül Kaya, H. Tarık Baytekin, *Demet Asil, Bilge Baytekin*	Core-Shell Quantum Dot-Embedded Polymers for Antistatic Applications	2023	Cadmium selenide Electrical conductivity Materials Polymers Quantum dots	10.1021/acsnm.3c03381	ACS Applied Nano Materials		
86	Article	Seren Kecili, Sumeyra Vural Kaymaz, Beyzanur Ozogul, H. Cumhuri Tekin, Meltem Elitas	Investigating influences of intravenous fluids on HUVEC and U937 monocyte cell lines using the magnetic levitation method	2023	Magnetic Levitation Method	10.1039/d3an01304a	Analyst		
87	Book chapter	Abdullah Atılğan, Abdullah Yıldız, Ahmet Uçar, Aliakbar Ebrahimi, Araz Norouz Dizaji, Aslı Yılmaz, Begüm Ünveroğlu Abdioğlu, Ender Yildirim, Fatma Doğan Güzel, Gökhan Demirel, Hamed Ghorbanpoor, Haşan Göçmez, Haşan Turan, Hediye Aydın, Hülya Biçer, Hüseyin Avcı, İremnur Akçakoca, Mehmet Yılmaz, Mustafa Tuncer, Nimet Yildirim Tirgil, Polat Narin, Recep Zan, Reza Didarian, Reza	Nanoüretim Teknikleri	2023	Nanoüretim Teknikleri	978-625-427-485-5	Nobel Akademik Yayıncılık		

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88	Article	Gizer M, Önen S, Korkusuz P.	Flow Cytometric and Immunohistochemical Follow-Up of Spermatogonial Lineage Commitment	2023	Methods in Molecular Biology ((MIMB,volume 2849))	10.1007/7651_2023_506	Springer		
89	Article	TORUL H., Yıldırım E., TAMER U.	Microfluidic platforms based on SERS imaging and their point-of-care applications	2023	Current Opinion in Biomedical Engineering	10.1016/j.cobme.2023.100510	Scopus		
90	Article	Tarim 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		
91	Article	Tarim 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.		
92	Article	Öksüzöğlü R.M.; Altan H.; Abdüsselamoğlu M.S.; Özkan Ö.B.; Bayram Y.; Chakar 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.		
93	Article	Önen S.; Atik A.C.; Gizer M.; Köse S.; Yaman Ö.; Külah 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		
94	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		
95	Article	Sen-Dogan B.; Yıldırım E.; Sahin S.; Ozgur E.; Zorlu O.; Kulah 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.		
96	Article	Erdogan R.I.; 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.; Hanav M.S.	Atmospheric Pressure Mass Spectrometry of Single Viruses and Nanoparticles by Nanoelectromechanical Systems	2022	ACS Nano	10.1021/acsnano.1c08423	American Chemical Society		
97	Article	Tevlek 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		
98	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		
99	Article	Bozyl 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		
100	Article	Karakuzu B.; Tarim 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		
101	Article	Sozak A.; Simsek E.; Yelboga T.; Gungor A.; Balli F.; Azgin K.	A Thermal and Electro-Magnetic Hybrid MOEMS Microscanner With Integrated Spatial Light Modulation and Metalens for Resolution Enhancement of Infrared Imaging Systems	2022	IEEE Sensors Journal	10.1109/JSEN.2022.3210043	Institute of Electrical and Electronics Engineers Inc.		
102	Article	Atik B.; Dirican E.; Demirörs O.; Altan H.; Esentürk O.; Yıldırım M.; Akin 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		
103	Article	Sekertekin Y.; Gokcen D.	Composites of Functionalized Multi-Walled Carbon Nanotube and Sodium Alginate for Tactile Sensing Applications †	2022	Engineering Proceedings	10.3390/ecsa-9-13349	MDPI		
104	Article	Koyuncuoğlu A.; Işık Akçakaya D.; Şardan Sukas Ö.; Külah 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.		



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105	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.		
106	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		
107	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		
108	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		
109	Article	Yuksel M.B.; Koyuncuoglu A.; Kulah 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.		
110	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.		
111	Article	Incecem 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				
112	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.		
113	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		
114	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.		
115	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.		
116	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.		
117	Article	Demircan Yalçın Y.; Töral T.B.; Sukas S.; Yıldırım E.; Zorlu Ö.; Gündüz U.; Kûlah 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		
118	Article	Alya A.M.N.; Tevlek A.; Almemar M.; Gökçen D.; Aydın 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		
119	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.		
120	Article	Delikoyun K.; Yaman S.; Yilmaz E.; Sarigil O.; Anil-Inevi M.; Tellik 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/acssens.0c02587	American Chemical Society		



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121	Article	Yildirim 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		
122	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.		
123	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.		
124	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		
125	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.		
126	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.		
127	Article	Yigit H.A.; Ulsan 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.		
128	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		
129	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.		
130	Article	Orhan E.; Yuksel M.; Ari A.B.; Yanik C.; Hatipoglu U.; Yağci A.M.; Hanay M.S.	Performance of Nano-Electromechanical Systems as Nanoposition Sensors	2020	Frontiers in Mechanical Engineering	10.3389/fmech.2020.00037	Frontiers Media S.A.		
131	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		
132	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.		
133	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		
134	Article	Tanrikulu M.Y.; Yildizak Ç.; 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.		
135	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		
136	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		
137	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		



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139	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		
140	Article	Şen-Doğan B.; Okan M.; Afşar-Erkak N.; Özgür E.; Zorlu O.; Kùlah H.	Enhancement of the start-up time for microliter-scale microbial fuel cells (μ MFCs) via the surface modification of gold electrodes	2020	Micromachines	10.3390/mi11070703	MDPI AG		
141	Article	Cetin D.; Okan M.; Bat E.; Kùlah 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.		
142	Article	Chamanian S.; Muhtaroglu A.; Kùlah 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.		
143	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		
144	Article	Comart I.; Cetintepe C.; Sagiroglu 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.		
145	Article	Chamanian S.; Uluşan H.; Koyuncuoglu A.; Muhtaroglu A.; Kùlah 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.		
146	Article	Chamanian S.; Baghaee S.; Uluşan H.; Zorlu O.; Uysal-Biyikoglu E.; Kùlah 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.		
147	Article	Uluşan H.; Chamanian S.; Ilik B.; Muhtaroglu A.; Kùlah H.	Fully Implantable Cochlear Implant Interface Electronics with 51.2-uW 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.		
148	Article	Chamanian S.; Ciftci B.; Uluşan H.; Muhtaroglu A.; Kùlah 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.		
149	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		
150	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.		
151	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.		
152	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		
153	Article	Uluşan H.; Muhtaroglu A.; Kùlah H.	A Sub-500 μ W Interface Electronics for Bionic Ears	2019	IEEE Access	10.1109/ACCESS.2019.2940744	Institute of Electrical and Electronics Engineers Inc.		
154	Article	Uluşan H.; Chamanian S.; Pathirana W.P.M.R.; Zorlu Ö.; Muhtaroglu A.; Kùlah 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		

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155	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.		
156	Article	İlik B.; Koyuncuoğlu A.; Şardan-Sukas Ö.; Külâh 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.		
157	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		
158	Article	Yasar O.; Uluşan H.; Zorlu O.; Şardan-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.		
159	Article	Aydın E.; Gökçe F.; Kangül M.; Zorlu Ö.; Külâh 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.		
160	Article	Kangül M.; Aydın E.; Gökçe F.; Zorlu Ö.; Külâh 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.		
161	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		
162	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.		
163	Article	Uluşan H.; Zorlu Ö.; Muhtaroglu A.; Külâh 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.		
164	Article	Gharehbaghi K.; Zorlu Ö.; Koçer F.; Külâh 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.		
165	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.		
166	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.		
167	Article	Pala S.; Azgin K.	A MEMS square Chladni plate resonator	2016	Journal of Micromechanics and Microengineering	10.1088/0960-1317/26/10/105016	Institute of Physics Publishing		
168	Article	Gharehbaghi K.; Zorlu Ö.; Koçer F.; Külâh 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		
169	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		
170	Article	Aydemir A.; Terzioglu 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.		
171	Article	Chamanian S.; Uluşan H.; Zorlu Ö.; Baghaee S.; Uysal-Biyikoglu E.; Külâh 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.		



#	Document Type	Authors	Title	Year	Source Title	DOI	Publisher	Conference Name	Conference Date
172	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		
173	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.		
174	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		
175	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.		
176	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		
177	Article	Uluşan H.; Gharehbaghi K.; Zorlu O.; Muhtarolu A.; Kùlah 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.		
178	Article	Bahrieh G.; Özgür E.; Koyuncuoğlu A.; Erdem M.; Gündüz U.; Kùlah H.	Characterization of the distribution of rotational torque on electrorotation chips with 3D electrodes	2015	Electrophoresis	10.1002/elps.201500061	Wiley-VCH Verlag		
179	Article	Demircan Y.; Koyuncuoğlu A.; Erdem M.; Özgür E.; Gündüz U.; Kùlah H.	Label-free detection of multidrug resistance in K562 cells through isolated 3D-electrode dielectrophoresis	2015	Electrophoresis	10.1002/elps.201400391	Wiley-VCH Verlag		
180	Article	Erdil E.; Topalli K.; Esmailzad N.S.; Zorlu O.; Kùlah 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.		
181	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.		
182	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.		
183	Article	Koydemir H.C.; Kùlah 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.		
184	Article	Torul H.; Çiftçi H.; Dudak F.C.; Adigüzel Y.; Kùlah H.; Boyaci 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		
185	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		
186	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		
187	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		
188	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		

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189	Article	Musayev J.; Adlguzel Y.; Kulah 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.		
190	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		
191	Article	Musayev J.; Altiner C.; Adiguzel Y.; Kulah 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.		
192	Article	Koydemir H.C.; Kulah 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.		
193	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		
194	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.		
195	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.		
196	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.		
197	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.		
198	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.		
199	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.		
200	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		
201	Article	Rahimi A.; Zorlu Ö.; Muhtaroglu 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.		
202	Article	Koyuncuolu A.; Jafari R.; Okutucu-Özyurt 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.		
203	Article	Yıldırım E.; Kùlah H.	Electrostatic energy harvesting by droplet-based multiphase microfluidics	2012	Microfluidics and Nanofluidics	10.1007/s10404-012-0946-2	Springer Verlag		
204	Article	Boran E.; Özgür E.; Yücel M.; Gündüz U.; Eroglu I.	Biohydrogen production by Rhodospirillum rubrum 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.		
205	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.		



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206	Article	Yildirim E.; Arikan M.A.S.; Kùlah 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.		
207	Article	Pekdemir M.E.; Ertùrkan D.; Kùlah 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		
208	Article	Zorlu Ö.; Topal E.T.; Kùlah 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.		
209	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.		
210	Article	Yildirim E.; Kùlah 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		
211	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.		
212	Article	Yilmaz G.; Çiftlik A.T.; Kùlah 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		
213	Article	Beker L.; Zorlu O.; Kùlah 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
214	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
215	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
216	Article	Beker L.; Kùlah 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
217	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
218	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		
219	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.		
220	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		
221	Article	Ocak I.E.; Kepenek R.; Kulah H.; Akin T.	A high performance Σ - Δ Readout circuitry for μ g resolution microaccelerometers	2010	Analog Integrated Circuits and Signal Processing	10.1007/s10470-009-9433-4	Springer Science+Business Media, LLC		



#	Document Type	Authors	Title	Year	Source Title	DOI	Publisher	Conference Name	Conference Date
222	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.		
223	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.		
224	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		
225	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)		
226	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		
227	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		
228	Article	Sari I.; Balkan T.; Kùlah 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		
229	Article	Sari I.; Balkan T.; Kùlah 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		
230	Article	Kùlah 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.		
231	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)		
232	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.		
233	Article	Eminoglu S.; Tanrikulu M.Y.; Akin T.	A low-cost 128 × 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.		
234	Article	Sukas S.; Erson A.E.; Sert C.; Kùlah 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		
235	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.		
236	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		
237	Book chapter	Demircan Y.; Yılmaz 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.		



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238	Conference paper	Külâh H.; Yılmaz A.M.; Ulusah H.; Chamannian S.; Batu A.; Yüksel 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
239	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
240	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/TIPTEKN053239.2021.9632857	Institute of Electrical and Electronics Engineers Inc.	2021 Medical Technologies Congress, TIPTEKNO 2021	11/04/2021-11/06/2021
241	Conference paper	Erdil E.; Sarac A.; İncecam S.; Cavdar, S.; Acar S.	Rf Magnetron Siçratma 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
242	Conference paper	Sarac A.; Erdil E.; İncecam 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
243	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
244	Conference paper	Erdogan R.T.; Alkhaled M.; Kaynak B.E.; Alhmoud H.; Pisheh 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
245	Conference paper	Atik B.; Dirican E.; Demirors O.; Altan H.; Esentürk O.; Yıldırım 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
246	Conference paper	Koç M.; Chamannian 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/ISCAS5156.2021.9401284	Institute of Electrical and Electronics Engineers Inc.	53rd IEEE International Symposium on Circuits and Systems, ISCAS 2021	05/22/2021-05/28/2021
247	Conference paper	Demirors O.; Atik B.; Dirican E.; Altan H.; Esentürk O.; Yıldırım 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

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248	Conference paper	Delikoyun K.; Demir A.A.; Cumhur 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
249	Conference paper	T. Akin	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
250	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
251	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/PVCon51547.2020.9757765	Institute of Electrical and Electronics Engineers Inc.	2nd International Conference on Photovoltaic Science and Technologies, PVCon 2020	11/30/2020-12/02/2020
252	Conference paper	Aydemir A.; Akin 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
253	Conference paper	Atik A.C.; Yıldırım E.; Külah 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, MicroTAS 2020		Chemical and Biological Microsystems Society	24th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2020	10/04/2020-10/09/2020
254	Conference paper	Özkan M.D.; Aslan M.K.; Atik A.C.; Özgür E.; Yıldırım E.; Külah 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 2020		Chemical and Biological Microsystems Society	21st International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2020	10/22/2017-10/26/2017
255	Conference paper	Atik A.C.; Yıldırım E.; Külah 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, MicroTAS 2020		Chemical and Biological Microsystems Society	24th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2020	10/04/2020-10/09/2020
256	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/SENSOR43011.2019.8956944	Institute of Electrical and Electronics Engineers Inc.	18th IEEE Sensors, SENSORS 2019	10/27/2019-10/30/2019
257	Conference paper	Çiftci B.; Chamanian S.; Uluşan H.; Külah 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



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258	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 μ 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
259	Conference paper	Çiftci B.; Chamanian S.; Uluşan H.; Yiğit H.A.; Koyuncuoğlu A.; Muhtaroglu A.; Kulah 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
260	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/SENSOR.2019.8956944	Institute of Electrical and Electronics Engineers Inc.	18th IEEE Sensors, SENSORS 2019	10/27/2019-10/30/2019
261	Conference paper	Yalçın Y.D.; Töral T.B.; Sukas S.; Yıldırım E.; Zorlu Ö.; Gündüz U.; Kulah 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		Chemical and Biological Microsystems Society	23rd International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2019	10/27/2019-10/31/2019
262	Conference paper	Yiğit H.A.; Uluşan H.; Chamanian S.; Kulah 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
263	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/ISISS.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
264	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
265	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
266	Conference paper	Şimşek E.; Redmond M.; Koyuncuoğlu A.; Okutucu-Özyurt T.; Kulah 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



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267	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
268	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
269	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
270	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
271	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
272	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
273	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
274	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
275	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
276	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



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277	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	10/30/2019-11/02/2016
278	Conference paper	Kose T.; Terzioglu 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
279	Conference paper	Gokce F.; Aydin E.; Kangul 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
280	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
281	Conference paper	Aydin E.; Kangul 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
282	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
283	Conference paper	Kangül M.; Aydin E.; Gökçe F.; Toral T.; Zorlu O.; Kùlah 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
284	Conference paper	Uluşan H.; Chamanian S.; Pathirana W.M.P.R.; Zorlu Ö.; Muhtaroglu A.; Kùlah 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
285	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
286	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
287	Conference paper	Çağlayan Z.; Demircan Yalçın Y.; Özkayar G.; Kahraman D. C.; Atalay R.; Özgür E.; Kùlah 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
288	Conference paper	Çağlayan Z.; Demircan-Yalcin Y.; Ozkayar G.; Özgür E.; Kùlah 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
289	Conference paper	Sen-Dogan B.; Afsar-Erkak N.; Ozgur E.; Zorlu O.; Kulah H.	Performance enhancement of micro-scale microbial fuel cells (µMFC) 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



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290	Conference paper	Sen-Dogan B., Afsar-Erkal N., Ozgur E., Zorlu O., Kulah H.	Performance enhancement of micro-scale microbial fuel cells (μ 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	Jun-16
291	Conference paper	Doğan B.Ş.; Erkal N.A.; Özgür E.; Zorlu Ö.; Külâh H.	Performance Enhancement of Mems-Based Microbial Fuel Cells (μ 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
292	Conference paper	Yalçın Y.D.; Özkayar G.; Özgür E.; Gündüz U.; Külâh 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
293	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/ISISS.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
294	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
295	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
296	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/ISISS.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
297	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
298	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)	



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299	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)	
300	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
301	Conference paper	Terzioglu 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
302	Conference paper	Gharehbaghi K.; Zorlu O.; Koçer F.; Külâh 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
303	Conference paper	Özkayar G., Demircan Yalçın Y., Özgür E., Gündüz U., Külâh H.	Enrichment of K562 human leukemia cells from diluted whole blood by using dielectrophoresis	2015				2nd International Biosensor Congress, İzmir, Türkiye	06/10/2015-06/12/2015
304	Conference paper	Demircan Yalçın, Y., Özgür, E., Gündüz, U., & Külâh, H.	Dielectrophoretic detection of multidrug resistance in cancer	2015				2nd International Biosensor Congress, İzmir, Türkiye	06/10/2015-06/12/2015
305	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	3/19/2015
306	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	04/20/201504/23/2015
307	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	04/20/201504/23/2015
308	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
309	Conference paper	Uluşan H.; Yaşar O.; Zorlu O.; Külâh 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
310	Conference paper	Terzioglu 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
311	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/ISISS.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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312	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
313	Conference paper	Uluşan H.; Gharehbaghi K.; Zorlu Ö.; Muhtaroglu 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
314	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
315	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
316	Conference paper	Uluşan 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
317	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
318	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	9/22/2015
319	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



#	Document Type	Authors	Title	Year	Source Title	DOI	Publisher	Conference Name	Conference Date
320	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		
321	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
322	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/ISISS.2014.6782539	IEEE Computer Society	1st IEEE International Symposium on Inertial Sensors and Systems, ISISS 2014	02/25/2014-02/26/2014
323	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
324	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
325	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
326	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
327	Conference paper	Erdil E.; Topalli K.; Esmailzad 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
328	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	7/16/2014



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329	Conference paper	Bahrieh, G., Özgür, E., & Külâh, H.	Dielectrophoretic Separation of K562 Human Leukemia Cells From Leukocytes by Isolated 3D Electrodes	2014	25th Micromechanics and Microsystems Europe workshop (MME 2014), İstanbul, Turkey			25th Micromechanics and Microsystems Europe workshop (MME 2014), İstanbul, Turkey	08/31/2014-09/03/2014
330	Conference paper	Sümer Laçın, Ö., Demircan Yalçın, Y., Zorlu, Ö., Özgür, E., Gündüz, U., Külâh, H., & Erdem, M.	High Throughput Parylene Micro-Channel Coulter Counter For Parallel Cell Counting and Sorting	2014	Dielectrophoresis 2014			Dielectrophoresis 2014	7/16/2014
331	Conference paper	Demircan Yalçın, Y., Erdem, M., Özgür, E., Gündüz, U., & Külâh, H.	Label-free multidrug resistance detection in MCF-7 cells by isolated 3D-electrode dielectrophoresis		Dielectrophoresis 2014			Dielectrophoresis 2014	7/16/2014
332	Conference paper	Tepegoz M.; Kucukkomurler A.; Tankut F.; Eminoglu S.; Akin T.	A miniature low-cost LWIR camera with a 160x120 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
333	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 384x288-25µm 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
334	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
335	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		
336	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
337	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
338	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
339	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
340	Conference paper	Uluşan H.; Zorlu Ö.; Muhtarolu A.; Külâh 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



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341	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
342	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
343	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
344	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/ISISS.2014.6782539	IEEE Computer Society	1st IEEE International Symposium on Inertial Sensors and Systems, ISISS 2014	02/25/2014-02/26/2014
345	Conference paper	Koyuncuoğlu A.; Türkakar G.; Redmond M.; Okutucu-özyurt T.; Külah 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
346	Conference paper	Zorlu O.; Türkyılmaz S.; Muhtaroğlu A.; Külah 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
347	Conference paper	Gelenbe E.; Gesbert D.; Gunduz D.; Külah H.; Uysal-Biyikoğlu 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
348	Conference paper	Nuzumlalı, O. L.; Eren, M.; Külah, 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
349	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



#	Document Type	Authors	Title	Year	Source Title	DOI	Publisher	Conference Name	Conference Date
350	Conference paper	Beker L.; Özgüven N.H.; Külâh 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
351	Conference paper	Baghaee S.; Ulsan H.; Chamanian S.; Zorlu O.; Külâh 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
352	Conference paper	Chamanian S.; Zorlu O.; Külâh 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
353	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
354	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
355	Conference paper	Beker L.; Zorlu O.; Külâh 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
356	Conference paper	Zorlu O.; Türkyılmaz S.; Muhtaroglu A.; Külâh 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



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357	Conference paper	Ulusan H.; Gharehbaghi K.; Zorlu O.; Muhtaroglu A.; Kulah 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 EUROSensors 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 EUROSensors 2013	06/16/2013-06/20/2013
358	Conference paper	Demircan Y.; Koyuncuoglu A.; Erdem M.; Ozgur E.; Gunduz U.; Kulah 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 EUROSensors 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 EUROSensors 2013	06/16/2013-06/20/2013
359	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
360	Conference paper	Ulusan H.; Zorlu O.; Kulah 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
361	Conference paper	Koyuncuoglu A.; Zorlu Ö.; Okutucu Özyurt T.; Kulah 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



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362	Conference paper	Erdil E.; Topalli K.; Zorlu O.; Toral T.; Yildirim E.; Kulah 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
363	Conference paper	Musayev J.; Adigüzel Y.; Külâh 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
364	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
365	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
366	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

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367	Conference paper	Bahrieh G.; Erdem M.; Özgür E.; Gündüz U.; Külah 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		Chemical and Biological Microsystems Society	17th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2013	10/27/2013-10/31/2013
368	Conference paper	Yildirim E.; Özgür E.; Külah 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
369	Conference paper	Denker R.; Muhtaroglu A.; Kulah H.	Empirical proof of concept for TE generation in mobile computers	2012	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
370	Conference paper	Beker L.; Muhtaroglu A.; Külah 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
371	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
372	Conference paper	Beker L.; Muhtaroglu A.; Özgüven H.N.; Külah H.	Finite element modeling of MEMS piezoelectric energy harvester	2012	Technical Proceedings of the 2012 NSTI Nanotechnology Conference and Expo, NSTI-Nanotech			Nanotechnology 2012: Electronics, Devices, Fabrication, MEMS, Fluidics and Computational - 2012 NSTI Nanotechnology Conference and Expo, NSTI-Nanotech 2012	06/18/2012-06/18/2012
373	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
374	Conference paper	Rahimi A.; Zorlu Ö.; Muhtaroglu A.; Külah 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.		
375	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
376	Conference paper	Uluşan H.; Gharehbaghi K.; Zorlu Ö.; Muhtaroglu A.; Külah H.	A self-powered rectifier circuit for low-voltage energy harvesting applications	2012	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
377	Conference paper	Tepegöz M.; Oğuz A.; Toprak A.; Senveli 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
378	Conference paper	Ceylan Koydemir H.; Külah 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			Nanotechnology 2012: Electronics, Devices, Fabrication, MEMS, Fluidics and Computational - 2012 NSTI Nanotechnology Conference and Expo, NSTI-Nanotech 2012	06/18/2012-06/21/2012
379	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

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380	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
381	Conference paper	Gharehbaghi K.; Uluşan H.; Zorlu Ö.; Muhtaroglu A.; Kùlah 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
382	Conference paper	Zorlu Ö.; Kùlah 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, EUROSENSOR 2012	09/09/2012-09/12/2012
383	Conference paper	Yildirim 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	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
384	Conference paper	Rahimi A.; Zorlu O.; Muhtaroglu A.; Kùlah H.	A vibration-based electromagnetic energy harvester system with highly efficient interface electronics	2011	2011 16th International Solid-State Sensors, Actuators and Microsystems Conference	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
385	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	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
386	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	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
387	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	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
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