

Journals

1. "3D printed vials for the colorimetric detection of mutations by LAMP polymerization", A.K. Pantazis, G. Papadakis, K. Parasyris, A. Papadaki and E. Gizeli, **Submitted in Lab on a Chip**
2. "An optofluidic biochip platform for acquiring the mechanical signature of cells", A.K. Pantazis, A.R. Chaudhury and N. Chronis, **In preparation**
3. "ITON as deep-etch mask for the fabrication of membrane-based acoustic devices for biosensing applications", A.K. Pantazis, K. Tsagaraki, G. Konstantinidis and E. Aperathitis, **In preparation**
4. "A GaN Sezawa-wave acoustic device for liquid-based applications", A.K. Pantazis, D. Founta, G. Konstantinidis and E. Gizeli, **In preparation**
5. "An automated compound screening for anti-aging effects on the function of *C. elegans* sensory neurons", D. Bazopoulou, A.R. Chaudhury, A.K. Pantazis and N. Chronis, **Scientific reports** 9, 9403, 2017
DOI: 10.1038/s41598-017-09651-x
6. "Altered sensory code drives juvenile to adult behavioral maturation in *Caenorhabditis elegans*", L.A. Hale, E. Lee, A.K. Pantazis, N. Chronis, and S. Chalasani, **eNeuro**, 10.1523, 2016
DOI: 10.1523/ENEURO.0175-16.2016
7. "Study of the effect of the operating frequency of a GaN Lamb wave device to viscosity and protein sensing", A.K. Pantazis, G. Konstantinidis and E. Gizeli, **IEEE Sensors**, Vol. 16, No. 19, 2016
DOI: 10.1109/JSEN.2016.2596904
8. "High sensitivity, GHz operating SAW pressure sensor structures manufactured by micromachining and nano-processing of GaN/Si", A. Muller, A. Stavrinidis, I. Giangu, A. Stefanescu, G. Stavrinidis, A. Pantazis, A. Dinescu, G. Boldeiu and G. Konstantinidis, Volume 2016-August, 9 August 2016, Article number 7540009
DOI: 10.1109/MWSYM.2016.7540009
9. "An image contrast-based pressure sensor", A.R. Chaudhury, A.K. Pantazis and N. Chronis, **Sensors and Actuators A: Physical**, Vol. 245, p. 63–67, 2016
DOI: 10.1016/j.sna.2016.04.057
10. "Free-standing gallium nitride membrane-based sensor for the impedimetric detection of alcohols", Y. Alifragis, G. Roussos, A.K. Pantazis, G. Konstantinidis and N. Chaniotakis, **Journal of Applied Physics**, Vol. 119, No. 7, 004608JAP, 2016
DOI: 10.1063/1.4941783
11. "Effect of nitrogen incorporation on the structural, optical and dielectric properties of reactive sputter grown ITO films", M. Gartner, H. Stroescu, A. Marin, P. Osiceanu, M. Anastasescu, M. Stoica, M. Nicolescu, M. Duta, S. Preda, E. Aperathitis, A. Pantazis, V. Kampylafka, M. Modreanu and M. Zaharescu, **Applied Surface Science**, Vol. 313, p. 311-319, 2014
DOI: 10.1016/j.apsusc.2014.05.208
12. "Characterization of a GaN Lamb-wave sensor for liquid-based mass sensing applications", A.K. Pantazis, G. Konstantinidis and E. Gizeli, **IEEE Sensors**, Vol. 14, No. 3, 2014
DOI: 10.1109/JSEN.2013.2291393
13. "A high frequency GaN Lamb-wave sensor device", A.K. Pantazis, E. Gizeli and G. Konstantinidis, **Applied Physics Letters**, Vol. 96, 194103, 2010
DOI: 10.1063/1.3427484
14. "InAs nanostructures on polar GaAs surfaces", G.E. Dialynas, A. Pantazis, Z. Hatzopoulos, M. Androurlidaki, K. Tsagaraki, G. Konstantinidis, C. Xenogianni, E. Trichas, S. Tsintzos, P.G. Savvidis and N.T. Pelekanos, **International Journal of Nanotechnology**, Vol. 6, No. 1-2, p. 124 – 136, 2009
15. "Millimeter-wave passive circuits elements based on GaAs micromachining", A. Pantazis, D. Neculoiu, Z. Hatzopoulos, D. Vasilache, M. Lagadas, M. Dragoman, C. Buiculescu, I. Petrini, Andrei Muller, G. Konstantinidis and A. Muller, **Journal of Micromechanics and Microengineering**, Vol. 15, p. 1-7, 2005
DOI: 10.1088/0960-1317/15/7/008

**Conferences/
Workshops**

- Oct 14-19, 2018 7th International Symposium on Transparent Conductive Materials, Chania, Greece
Poster presentation: “ITO-vs-ITON: Physical and mechanical properties”, A.K. Pantazis, E. Gagaoudakis, M. Androulidaki, K. Tsagaraki, E. Iliopoulos, N. Michailidis, E. Aperathitis¹
- May 22-27, 2016 International Microwave Symposium IMS2016, San Fransisco, USA
Paper co-author: “High sensitivity, GHz operating SAW pressure sensor structures manufactured by micromachining and nano-processing of GaN/Si”, A. Muller, A. Stavrinidis, I. Giangu, A. Stefanescu, G. Stavrinidis, A. Pantazis, A. Dinescu, G. Boldeiu and G. Konstantinidis
- Oct 26-30, 2014 MicroTAS 2014, San Antonio, TX, USA
Poster presentation: “An optofluidic chip for studying mechanical deformation of cells”, A.K. Pantazis, S. Papagerakis, P. Papagerakis and N. Chronis
- May 20, 2013 2013 MBSTP Symposium, Ann Arbor, MI, USA
Poster presentation: “An optofluidic biochip for monitoring biomarkers in cells”, A.K. Pantazis and N. Chronis
- Oct 15-17, 2012 35th International Semiconductor Conference, Sinaia, Romania
Paper co-author: “Charging and discharging processes in ALN dielectric films deposited by plasma assisted molecular beam epitaxy”, M. Koutsourelis, A. Adikimenakis, L. Michalakis, E. Papandreou, A.K. Pantazis, G. Konstantinidis, A. Georgakilas and G. Papaioannou
- Oct 7-10, 2012 5th International Conference “Micro&Nano” on Micro- Nanoelectronics, Nanotechnologies and MEMS, Athens, Greece
Oral presentation: “Towards the development of a multi-frequency GaN Lamb-type acoustic device”, A.K. Pantazis, G. Konstantinidis and E. Gizeli
- Sep 26-29, 2012 Advances in Circulating Tumour Cells (ACTC): from Basic Research to Clinical Practice, Athens, Greece
Poster presentation: “Isolation methods for Circulating Tumor Cells”, G. Kallergi, M. Tsekrekou, E. Politaki, M.A. Papadaki, A. Pantazis, V. Georgoulis, D. Kafetzopoulos and D. Mavroudis
- Dec 12-15, 2010 4th International Conference “Micro&Nano” on Micro- Nanoelectronics, Nanotechnologies and MEMS, Athens, Greece
Oral presentation: “High frequency GaN Lamb-wave biosensors: Effect of frequency in sensitivity”, A.K. Pantazis, G. Konstantinidis and E. Gizeli
- Nov 03-05, 2010 10th International Conference on Information Technology and Applications in Biomedicine, Corfu, Greece
Oral presentation: “Micromachined acoustic device for diagnostic applications”, A.K. Pantazis, E. Gizeli and G. Konstantinidis
- Oct 18-20, 2010 19th European Workshop on Heterostructure Technology, Fodele, Crete, Greece
Poster presentation: “Substrateless III-nitride based Lamb-type biosensor”, A.K. Pantazis, E. Gizeli and G. Konstantinidis
- Oct 17-21, 2010 3rd International Symposium on Transparent Conductive Materials, Analipsi, Crete, Greece
Poster presentation: “Efficient fluorine plasma-etching masking material based on oxynitrides”, A.K. Pantazis, V. Kampylafka, M. Kalloudis, E. Gizeli, G. Konstantinidis and E. Aperathitis
- Feb 22-24, 2010 Workshop on biosensors, Institute of Biomedical Engineering, Imperial College of London, UK
Invited talk: “Micromachined acoustic biosensors for applications in biotechnology and biomedicine”
- Feb 01-04, 2010 2nd International Conference on Drug Discovery and Therapy, Dubai, UAE
Oral presentation: “Novel acoustic sensors for clinical applications”, A.K. Pantazis, E. Gizeli and G. Konstantinidis
- Sep 14-18, 2009 E-MRS Fall Meeting, Warsaw, Poland
Oral presentation: “A membrane supported dual-band acoustic device for biological applications”, A.K. Pantazis, E. Gizeli and G. Konstantinidis
- Jul 06-08, 2009 MEMSWAVE Workshop, Trento, Italy
Oral presentation: “Micromachined III-N acoustic devices for bacteria detection”, A.K. Pantazis, E. Gizeli, D. Vasilache, E. Aperathitis, A. Müller and G. Konstantinidis

Publications – Alexandros K. Pantazis

- Jun 30 - Jul 03, 2008 MEMSWAVE Workshop, Fodele, Crete, Greece
Poster presentation: "Development of a Lamb-wave sensor for biological applications", A.K. Pantazis, E. Gizeli, A. Adikimenakis, A. Georgakilas, A. Stavrinidis and G. Konstantinidis
- Sep 05-07, 2004 Micromechanics Europe, Leuven, Belgium
Oral presentation: "New millimeter wave circuits based on GaAs micromachining", A. Pantazis, D. Neculoiu, Z. Hatzopoulos, D. Vasilache, M. Lagadas, M. Dragoman, C. Buiculescu, I. Petrini, Andrei Muller, G. Konstantinidis, A. Muller
- Mar 07-09, 2005 IEEE International workshop on antenna technology: Small antennas and novel materials, Marina Mandarin, Singapore
Paper co-author: "Yagi-Uda antennas fabricated on thin GaAs membrane for millimeter wave applications", D. Neculoiu, G. Konstantinidis, L. Bary, D. Vasilache, A. Stavrinidis, Z. Hatzopoulos, A. Pantazis, R. Plana, A. Muller
- Nov 08-09, 2004 12th IEEE international symposium on electron devices for microwave and optoelectronics applications, Pretoria, South Africa
Paper co-author: "Novel micromachined GaAs circuits for millimeter wave applications", A. Muller, G. Konstantinidis, D. Neculoiu, D. Vasilache, Z. Hatzopoulos, A. Pantazis, A. Stavrinidis, I. Petrini, C. Buiculescu, vol. 1, Issue , p. 9 - 14
- Jun 30 - Jul 02, 2004 MEMSWAVE Workshop, Uppsala, Sweden
Paper co-author: "Design and technology for III-V (arsenides and nitrides) membrane supported Yagi-Uda antennae for 45 and 60 GHz", G. Konstantinidis, A. Muller, Z. Chatzopoulos, D. Neculoiu, A. Kostopoulos, A. Georgakilas, A. Adikimenakis, D. Vasilache, A. Pantazis, M. Lagadas

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