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## PUBLICATIONS

### Editor

1. **Biomolecular Sensors**  
Eds E. Gizeli, C.R. Lowe, Taylor & Francis, UK, 2002
2. **pHealth 2016**  
Eds N. Maglaveras, E. Gizeli, IOS Press, 2016



### Book Chapters

1. **Handbook of Immunoassay technologies: Approaches, Performances and Applications**  
Ed. SK. Vashist and J. Luong  
A. Grammoustianou, E. Gizeli, Chapter on "Acoustic wave based immunoassays", pp. 203-216, Elsevier, Academic Press, London, UK, 2018
2. **Handbook of Biosensors and Biochips**  
Eds C.R. Lowe, D. Cullen, H.W. Weetall and I. Karube  
K. Melzak, E. Gizeli "Love Wave Biosensors", John Wiley & Sons, 2007
3. **High frequency acoustic wave devices for analyses of planar lipid bilayers**  
Eds H.T. Tien & A. Ottava  
K. Melzak, E. Gizeli "Advances in planar lipid bilayers and liposomes", Elsevier Academic Press, 2005
4. **Biomolecular Sensors**  
Eds E. Gizeli, C.R. Lowe  
E. Gizeli "Acoustic Immunosensors", Taylor & Francis, UK, 2002

### Guest Editor

1. **Sensing and Bio-Sensing Research**, Elsevier, Special issue on "Acoustic wave sensor technology for biophysical and bioanalytical studies", 2016, Vol. 11.



### Patents

1. G. Papadakis, E. Gizeli, **Monitoring a liquid phase assay**, EU 18203833.1, Oct. 2018
2. G. Papadakis, E. Gizeli, **Detecting nucleic acids in impure samples with an acoustic wave sensor**, UK US 2019/0011401
3. G. Papadakis, E. Gizeli, **Measurement of analyte with an acoustic wave sensor**, PCT/EP2016/065612
4. A. Tsortos, G. Papadakis, E. Gizeli, **Molecular conformation biosensing**, WO 2008/155692, EC2171083
5. E. Gizeli and A.C. Stevenson **"Chemical sensor for detecting binding reactions"** WO9201931

### Peer reviewed articles (\* corresponding author)

1. *G.D. Kaprou, V. Papadopoulos, D.P. Papageorgiou, I. Kefala, G. Papadakis, E. Gizeli, S. Chatzandroulis, G. Kokkoris, A. Tserepi*  
Ultrafast, low-power, PCB manufacturable, continuous-flow microdevice for DNA amplification  
**Analytical Bioanalytical Chemistry**, 2019, 41, 5297-5307

2. G. Papadakis, A. Pantazis, M. Ntogka, K. Parasyris, G. Theodosi, G. Kaprou and E. Gizeli  
*3D-printed point-of-care platform for genetic testing of infectious diseases directly in human samples using acoustic wave sensors and a smartphone*  
**ACS Sensors**, 2019, 4(5), 1329-1336
3. Vasilios Raptis, Achilleas Tsortos, and Electra Gizeli  
*Theoretical aspects of a discrete-binding approach in quartz-crystal microbalance acoustic biosensing*  
**Physical Review Applied**, 2019, 11, 034031
4. G. Papadakis, P. Murasova, A. Hamiot, K. Tsougeni, G. Kaprou, M. Eck, D. Rabus, Z. Bilkova, B. Dupuy, G. Jobst, A. Tserepi, E. Gogolides, E. Gizeli\*  
*Micro-nano-bio acoustic system for the detection of foodborne pathogens in real samples*  
**Biosensors Bioelectronics**, 2018, 111, 52-58.
5. A. Grammoustianou, G. Papadakis, E. Gizeli\*  
*Solid-Phase Isothermal DNA Amplification and Detection on Quartz Crystal Microbalance Using Liposomes and Dissipation Monitoring*  
**IEEE Sensors Letters**, 2017, DOI: [10.1109/LSENS.2017.2739803](https://doi.org/10.1109/LSENS.2017.2739803)
6. G. Papadakis, P. Palladino, D. Chronaki, A. Tsortos, E. Gizeli\*  
*Sample-to-answer acoustic detection of DNA in complex samples;*  
**Chemical Communications**, 2017, 53, 8058-8061
7. D. Millionsi, M. Velez, A. Tsortos, E. Gizeli\*  
*Extracting the shape and size of biomolecules attached to a surface as suspended discrete nano-particles;*  
**Analytical Chemistry**, 2017, 89, 4198-4203
8. G. Papadakis, JM. Friedt, M. Eck, D. Rabuc, G. Jobst, E. Gizeli\*  
*Optimized acoustic biochip integrated with microfluidics for biomarkers detection in molecular diagnostics;*  
**Biomedical Microdevices**, 2017, 19, 16.
9. D. Chronaki, D.I. Stratiotis, A. Tsortos, E. Anastasiadou, E. Gizeli\*  
*Screening between normal and cancer human thyroid cells through comparative adhesion studies using Quartz Crystal Microbalance technology;*  
**Sensing and Bio-Sensing Research**, 2016, 11, 99-106
10. A. Kordas, G. Papadakis, J. Champ, S. Descroix, E. Gizeli\*  
*Rapid Salmonella detection using an acoustic wave device combined with the RCA isothermal DNA amplification method;*  
**Sensing and Bio-Sensing Research**, 2016, 11, 121-127
11. A.S. Kastania, K. Tsougeni, G. Papadakis, E. Gizeli, G. Kokkoris, A. Tserepi, E. Gogolides  
*Plasma micro-nanotextured polymeric micromixer for DNA purification with high efficiency and dynamic range;*  
**Analytical Chimica Acta**, 2016, 942, 58-67
12. A.K. Pantazis, G. Konstantinidis, E. Gizeli\*  
*Study of the effect of the operating frequency of a GaN Lamb wave device to viscosity and protein Sensing;*  
**IEEE Sensors Journal**, 2016, 16 (19), 7028-7036
13. M. Gianneli, K. Tsougeni, A. Grammoustianou, A. Tserepi, E. Gogolides, E. Gizeli\*  
*Nanostructured PMMA-coated Love wave device as a platform for protein adsorption studies;*  
**Sensors and Actuators B**, 2016, 236, 583-590
14. A. Tsortos, G. Papadakis, E. Gizeli  
*On the hydrodynamic nature of DNA acoustic sensing;*  
**Analytical Chemistry**, 2016, 88 (12), 6472-6478
15. P. Mateos-Gil, A. Tsortos, M. Velez, E. Gizeli\*  
*Monitoring structural changes in intrinsically disordered proteins with QCM-D: Application to the bacterial cell division protein ZipA;*  
**Chemical Communications**, 2016, 52, 6541-6544
16. K. Tsougeni, G. Papadakis, M. Gianneli, A. Grammoustianou, V. Constantoudis, B. Dupuy, P. N. Petrou, S. E. Kakabakos, A. Tserepi, E. Gizeli, E. Gogolides  
*Plasma nanotextured polymeric lab-on-a-chip for highly efficient bacteria capture and lysis;*  
**Lab on a Chip**, 2016, 16, 120-131
17. G. Kaprou, G. Papadakis, D. P. Papageorgiou, G. Kokkoris, V. Papadopoulos, I. Kefala, E. Gizeli, A. Tserepi  
*Miniaturized devices for isothermal DNA amplification addressing DNA diagnostics;*  
**Microsystem Technologies** 2015, DOI 10.1007/s00542-015-2750-x
18. A. Tsortos, A. Grammoustianou, R. Lymbouridou, G. Papadakis, E. Gizeli\*  
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**Chemical Communications**, 2015, 51, 11504-11507
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20. G. Papadakis, N. Skandalis, A. Dimopoulou, P. Glynos, E. Gizeli\*  
*Bacteria Murrur: Application of an acoustic biosensor for plant pathogen detection*; **PLOS ONE**, 2015, 10 (7): e0132773
21. K. Mitsakakis, A. Tsortos\*, Electra Gizeli\*  
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22. V. Papadopoulos, I. Kefala, G. Kokkoris, G. Kaprou, D. Moschou, G. Papadakis, E. Gizeli, A. Tserepi  
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23. G. Papadakis\*, E. Gizeli\*,  
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24. A.K. Pantazis, G. Konstantinidis, E. Gizeli\*  
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25. G. Papadakis, A. Tsortos, A. Kordas, I. Tiniakou, E. Morou, J. Vontas, D. Kardassis, E. Gizeli\*  
*Acoustic detection of DNA conformation in genetic assays combined with PCR*; **Scientific Reports** 2013, 3:2033, DOI: 10.1038 ([Press report](#))
26. K.A. Melzak, S.A. Melzak, E. Gizeli, J.L. Toca-Herrera,  
*Cholesterol ordering in phosphatidylcholine liposomes: a surface plasmon resonance study*  
**Materials** 2012, 5 (11), 2306-2325 ([Invited](#), Special Issue on Supported Lipid Membranes)
27. G. Papadakis, E. Gizeli  
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28. K. Mitsakakis, S. Sekula-Neuner, S. Lenhart, H. Fucks, E. Gizeli\*  
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**Analytical Chemistry** 2012, 84, 1854-1861
30. M. Saitakis, E. Gizeli\*  
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31. A. Tsortos, G. Papadakis, E. Gizeli\*  
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32. K. Mitsakakis, E. Gizeli\*  
*Multi-sample acoustic biosensing microsystem for protein interaction analysis*; **Biosensors and Bioelectronics** 2011, 26, 4579-4584
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34. M. Saitakis, E. Gizeli\*,  
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36. A. Pantazis, E. Gizeli\*, G. Kostantinidis\*  
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37. G. Papadakis, A. Tsortos, K. Mitsakakis, E. Gizeli\*

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40. F. Bender, P. Roach, A. Tsortos, G. Papadakis, M.I. Newton, G. McHale, E. Gizeli\*  
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41. G. Papadakis, A. Tsortos, E. Gizeli\*  
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45. C. Hadjicharalambous, T. Sheynis, R. Jelinek, M. Shanahan, A. Ouellette, E. Gizeli\*  
*Mechanism of  $\alpha$ -defensin bactericidal action: comparative membrane disruption by Cryptidin-4 and its disulfide-null analogue; Biochemistry* 2008, **47**, 12626-12634
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47. A. Tsortos, G. Papadakis, E. Gizeli\*  
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51. A. Tsortos, G. Papadakis, K. Mitsakakis, K.A. Melzak, E. Gizeli\*  
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54. E. Gizeli\*, J. Glad  
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*Acoustic determination of polymer molecular weights and rotation times; Journal of Polymer Science B: Physics* 2002, 40, 1490-1495
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*Pulse mode operation of Love wave devices for biosensing applications; Analyst* 2001, 126, 2107-2109
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71. [E. Gizeli\\*](#)  
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73. [E. Gizeli\\*](#), C.R. Lowe  
*Immunosensors; Current Opinion in Biotechnology* 1996, 7, 66-79 ([Invited Review](#))
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77. E. Gizeli, A.C. Stevenson, N.J. Goddard, C.R. Lowe  
*A novel Love-plate acoustic sensor utilizing polymer overlayers*; **IEEE Transactions on Ultrasonics Ferroelectric and Frequency Control** 1992, **39** (5), 657-659

#### Peer-reviewed articles in conference proceedings

1. E. Gogolides, A. Tserepi, G. Jobst, J-M. Friedt, D. Rabus, B. Dupuy, Z. Bilkova, S. Descroix, J-L. Viovy, G. Papadakis, E. Gizeli  
*Micro-Nano-Bio Diagnostic System for Food Pathogen Detection Revolutionizes Food Safety Management & Protects Consumers Health*, **pHealth 2016, Proc. 13th International Conference on Wearable Micro and Nano Technologies for Personalised Health**, 67-73  
Eds N. Maglaveras and E. Gizeli, IOS Press, The Netherlands, 2016
3. G. Kaprou, G. Papadakis, G. Kokkoris, V. Papadopoulos, I. Kefala, D. Papageorgiou, E. Gizeli, A. Tserepi  
*Miniaturized devices towards an Integrated Lab-on-a-chip Platform for DNA diagnostics*  
**Proc. SPIE 9518, Bio-MEMS and Medical Microdevices II**, 95180G (2015); doi:10.1117/12.2181953
4. G. Kaprou, K. Tsougeni, A. Kastania, G. Kokkoris, G. Papadakis, S. Chatzandroulis, E. Gizeli, P. Petrou, S. Kakabakos, E. Gogolides, and A. Tserepi  
*Lab-on-a-chip for food-pathogen detection*,  
**Proc. of 10<sup>th</sup> Panhellenic Conference of Chemical Engineering** (2015)
5. K. Mitsakakis, A. Tserepi, E. Gizeli\*  
*An integrated microfluidics-on-SAW setup for multi-sample sensing*  
**IEEE International Frequency Control Symposium Proceedings**, 2008, 337-340
6. *Acoustic wave biosensor for detecting DNA conformation; a study with QCM-D*  
A. Tsortos, G. Papadakis, E. Gizeli\*, **IEEE International Frequency Control Symposium Proceedings**, 2008, 346-349
7. M. Saitakis, A. Dellaporta, E. Gizeli\*  
*A surface acoustic wave sensor for the study of membrane-protein/ligand interactions using whole cells*  
**IEEE International Frequency Control Symposium Proceedings**, 2008, 356-359
8. E. Gizeli\*, H. Mehta, C.R. Lowe  
*Novel calibration of the Love wave sensor utilising phospholipid bilayers*  
**Chemical and Biological Sensors and Analytical Electrochemical Methods Proceedings**, **97** (19),  
Symposium of Electrochemical Society and International Society of Electrochemistry, 1997, 155-164.

#### Press and media releases- Dissemination to the public

1. To Vima Science ([www.tovima.gr/science/](http://www.tovima.gr/science/)) 16 December 2018, article on "Diagnostic analysis on the spot", with reference to "Proof-of-Concept" grant awarded in Dec. 2018
2. **European Researcher's Night 2018**: Presentation of Lab's research and innovation activities at IMBB-FORTH (28 September 2018)
3. Biosensors Lab represents IMBB in **Thessaloniki International Fair 2018** and presents its work on research and innovation (5 September 2018)
4. For 1st award on «Excellence in Innovation and Entrepreneurship, 2016" competition
  - **Article**, in 'Patris' newspaper, Heraklion Crete, 21/2/2017  
"Microbiological analysis via your smartphone" (by K. Milona)
  - **Interview**, *Local radio* 21/2/2017
5. EC-funded project LOVE-FOOD: **Distinction** by the Council of European Research and Innovation Ministers (<https://ec.europa.eu/digital-single-market/en/news/project-food-safety-gets-recognition-eu-council>) (January 2016)
6. **European Researcher's Night 2015**: Presentation of Biosensors Lab research activities, Heraklion, Crete, Greece, September 25<sup>th</sup>, 2015
7. **European Researcher's Night 2014**: Representing Biosensors Lab research activities, Heraklion, Crete, Greece, September 26<sup>th</sup>, 2014

8. For Innovation Award at "Greece Innovates 2013" competition, received by Prof Gizeli for 'best applied scientific innovation' in Greece, sponsored by Eurobank & the Hellenic Federation of Enterprises (ΣΕΒ) 17/9/2013
  - **Interview**, in 'Kapa' magazine in [Kathimerini](#)-Sunday Edition 5/5/2013  
«Genetic analysis at low cost» (by C. Deligiannis)
  - **Interview**, [National Public Radio](#) (*B' Programma*, 103.7 FM) 19/5/2013 (by Y. Daras)
  - **Interview**, [SKAI TV](#) ("Proti Grammi") 10/9/2013 (by V. Lyrantzis & D. Economou)
8. For the article in Scientific Reports (Papadakis et al., 2013): **Report** on GenomeWeb.com "Researchers pair acoustic measurements with PCR for label free SNP genotyping-gene expression assays" (June 27, 2013)
9. For the article in Biophysical Journal (Tsortos et al. 2008):
  - **Commentary** in HFSP Journal (vol. 2(4), pp. 171-177, 2008)
  - **Hot-off-the-press** report by the Human Frontier Science Program: «Acoustic waves can 'see' the conformation of surface-attached DNA molecules»
  - **Report** in "Biotech Business Week" (*NewsRx*, p.796, 16/6/2008)
10. For the article in Biophysical Journal (Saitakis et al. 2008): **Report** in "Biotech Business Week" (*NewsRx*, 08/01/2009)
11. For the article in Biosensors & Bioelectronics (Papadakis et al. 2009): **Hot-off-the-press** report by the Human Frontier Science Program: "Novel biophysical method to characterize drug candidates for anti-gene therapy"