Dimitrios Goustouridis

Current Position	Associate Professor, Department of Electrical and Electronic Engineering University of West Attica
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Education and Qualifications

- **Ph.D.** on "Thin Silicon Films And Their Application In The Fabrication of Pressure Sensors" from the Faculty of Applied Mathematics and Physics, National Technical University Athens (1999). His PhD thesis focused on the design and fabrication of silicon single crystal pressure sensors, as well as the special micromachining process steps in particular (2002).
- **B.Sc** from the Physics Department, University of Patras, Greece (1992)

Professional Experience

- **11/2010-today**: Associate Professor, Department of Electrical and Electronic Engineering, University of West Attica
- **2008 – today**: Co-Founder of spin off company ThetaMetrisis SA
- **2004 – 2010**: Technological Education Institute of Piraeus, Adjunct faculty (labs), Department of Electronics.
- **2000 – 2003**: Technological Education Institute of Athens, Adjunct faculty (labs), Department of Electronics
- **2007 – 2010**: National Center of Scientific Research "Demokritos",
- **Research Associate** (on contract), Institute of microelectronics.
- **2003 – 2007**: National Center of Scientific Research "Demokritos",
- **Post Doctor Fellow**, Institute of microelectronics.
- 1997 – 2003: National Center of Scientific Research "Demokritos",
- **Research Associate** (on contract), Institute of microelectronics.
- 1998 – 2000: Military Service as Second Lieutenant reservist

Scholarships

- **2003 – 2007**: National Center of Scientific Research "Demokritos", Post Doctor Fellow, Institute of microelectronics.
- **1993 – 1997**: National Center of Scientific Research "Demokritos", Ph.D Fellow, Institute of microelectronics.

Research Interests

- Sensors and interfacing circuits
- Analog and mixed signal electronics.
- Micromachining
- Sensors metrologies

Special Skills

- Microelectronic and Micromechanical processing
- Programming languages FORTRAN, Pascal, C++
- CAD Programming, Orcad, AutoCAD
- Data acquisition programming LabView
- Simulation: Athena, Spice

Research Projects

- **ΑΡΧΙΜΗΔΗΣ, Τ1ΕΔΚ-00924**, «optical system for the fast & accurate quality control of industrial compontets and processes». General Secretariat of Research and Technology,

Operational Programme Competitiveness entrepreneurship Innovation (EPAnEK). (March 2018).

- **ΜΙΚΡΟΔΙΑΓΝΩΣΗ, Τ1ΕΔΚ-00101**, «MICRObioanalytical system for the fast and at the Point-of-Care DIAGNOSIS of sepsis». General Secretariat of Research and Technology, Operational Programme Competitiveness entrepreneurship Innovation (EPAnEK). (May 2018)
- **IntelligentLogger, Τ1ΕΔΚ-01359**, «Automated management system of fleet heavy-duty vehicles based on data collection and smart prediction techniques.». General Secretariat of Research and Technology», Operational Programme Competitiveness entrepreneurship Innovation (EPAnEK). (August 2018).
- **EtextWeld, H2020-MSCA-RISE-2014**, Grant Agreement Number: 644268 (1/2015 – 6/2019). Coordination Action for "Welding of E-Textiles for Interactive Clothing".
-
- **FOODSNIFFER, FP7-ICT 318319,** «FOOD Safety at the point-of-Need via monolithic spectroscopic chip identiFying harmFul substances in frEsh pRoduce». **2012 – 2015**, Institute of Microelectronics, NCSR "Demokritos".
- **SAVELEC, FP7-SEC-2011.1.4-2**, «Safe control of non cooperative vehicles through electromagnetic means». **2012 – 2015**, Department of Electronic Engineering, Piraeus University of Applied Sciences.
- **SENS-ERA, FP7-INCO-2011-6.1,** «Strengthening sensor research links between the Georgian Technical University and the European Research Area». Coordinator: Georgian Technical University. ERA WIDE –selected for funding 8/2011.
- **EU project Pythia, FP7–ICT-224030**, «Monolithically integrated interferometric biochips for label-free early detection of human diseases », **2008 – 20011**, Institute of Microelectronics, NCSR "Demokritos".
- **EU Micro2DNA, FP6-IST-4-027333-STP**, «Integrated polymer-base microfluidic micro system for DNA extraction, amplification, and silicon-based detection», **2006 – 2009**, Institute of Microelectronics, NCSR "Demokritos".
- **EU project FRACTURE, IST – 2000 – 26014**, «Nanoelectronics Devices and Fault – Tolerant Architectures», **2001 – 2003**, Institute of Microelectronics, NCSR "Demokritos"
- **Cooperative Research Contracts, BRST985513**, «Corporate research for the development of a reliable tyre pressure monitoring system», **1999 – 2001**, Institute of Microelectronics, NCSR "Demokritos".
- **EU project RAPID, ESPRIT Long Term Search – 23481**, «Redistribution and activation phenomena in integrated circuit and device manufacturing», **1997 – 2000**, Institute of Microelectronics, NCSR "Demokritos".
- **EU project CASE, ESPRIT COPERNICUS – CP96-136**, «Capacitive Silicon Sensors for Biomedical Applications», **1996 – 1998**, Institute of Microelectronics, NCSR "Demokritos".
- **EU project MICROMEDES, ESPRIT – 8902**, «Modular Microsystem for Controlled Medical Drug Release», **1993 – 1997**, Institute of Microelectronics, NCSR "Demokritos"
- **GSRT project Greece-Italy Bilateral Collaboration**, «Fabrication and characterization of an array of transparent conductive thin film polymeric composite as multiparametric sensitive layers for a new e-nose, **2006 – 2008**, Institute of Microelectronics, NCSR "Demokritos". **Coordinator**.
- **GSRT project Greece-France Bilateral Collaboration**, «Study and fabrication of a diphasic micro-cooler (DMC) using thermal integrated sensors (flow, pressure and temperature)», **2006 – 2008**, Institute of Microelectronics, NCSR "Demokritos".
- **GSRT project PENED 99,** «Development of Humidity Sensors», **1999 – 2001**, Institute of Microelectronics, NCSR "Demokritos".
- **GSRT project PENED 95,** «Development of Silicon Sensors with Surface Micromechanical Techniques», **1996 – 1998**, Institute of Microelectronics, NCSR "Demokritos".
- **Greek Ministry of Education project, Archimides II**, «Development of an electromechanical device for controlling of physical parameters by combining microelectronics and PCB technology», **2005 – 2007**, Department of Electronics, Technological Institution of Athens.

- **Greek Ministry of Education project, Archimides I**, «Χαρακτηρισμός υλικών και βελτιστοποίηση διεργασιών για κατασκευή νανοδιατάξεων », **2003 – 2006**, Department of Electronics, Technological Institution of Athens.
- **Greek Ministry of Education project, Archimides I**, «Παρακολούθηση και καταγραφή της αλκοολικής ζύμωσης για την παραγωγή οίνου σε πραγματικό χρόνο (on-line) με χρήση ολοκληρωμένων αισθητήρων πίεσης », **2003 – 2006**, Department of Electronics, Technological Institution of Athens.
- **Industrial Project (Funded from Remon Medical Inc.)**, for Development of Implantable Pressure Sensors for Biomedical Applications, **2000 – 2003**, Institute of Microelectronics, NCSR "Demokritos".

Other Scientific Activities

- Program committee member of Eurosensor XXV conference 2011 which will be held in Athens.
- Program committee member of Micro and Nano Engineering (MNE) conference 2008 (Athens, Greece, 09/2008).
- Reviewer in journals: Microelectronic Engineering (Elsevier), Sensors and Actuators A. Physical (Elsevier), Superlattices and Microstructures (Elsevier).

Scientific Publications

- International Patents: **1**
- National Patents: **3**
- International Journals: **76**
- International Conferences: **66**
- International Workshops: **7**
- National Conferences: **10**
- Citation (October 2021): **997**
- h factor: **17**

Patents

International:

- U.S6,704,185 B2, Israel 15177 "Capacitive Pressure Responsive Devices And Their Fabrication" International Patent application (extebded to EPO countries appl. no. EP20010904253)

National:

- GR1004286 "A Capacitive Type Chemical-Selective Sensor And A Method To Fabricate Same"
- GR1005410 "A Method to Deposit Multitude Polymer Materials for Chemically Sensitive Arrays"
- GR108698 "Optical sensor based on three-dimensional micropatterned layer of transparent material for the simultaneous label-free monitoring of multiple (bio)reactions with white light reflectance spectroscopy"

Journal Publications

J.1 "A miniature self-aligned pressure sensing element", D. Goustouridis, S. Chatzandroulis, P. Normand, D. Tsoukalas, J. Micromech. Microeng. 6 (1996) 33-35.

J.2 "A solid-state pressure-sensing microsystem for biomedical applications", S. Chatzandroulis, D. Goustouridis, P. Normand, D. Tsoukalas, Sensors and Actuators A 62 (1997) 551-555.

J.3 "Ultraminiature silicon capacitive pressure-sensing elements obtained by silicon fusion bonding", D. Goustouridis, P. Normand, D. Tsoukalas, Sensors and Actuators A 68 (1998) 269-274.

J.4 "Miniaturization of Si diaphragms obtained by wafer bonding", D. Goustouridis, P. Normand, D. Tsoukalas, Microelectronic Engineering 41/42 (1998) 437-440.

J.5 "Parameters influencing the flatness and stability of capacitive pressure sensors fabricated with wafer bonding", D. Goustouridis, D. Tsoukalas, P. Normand, A.G. Kontos, Y. Raptis, E. Anastassakis, Sensors and Actuators A 76 (1999) 403-408.

J.6 "Fabrication Of Single Crystal Si Cantilevers Using A Dry Release Process And Their Application As A Capacitive Type Humidity Sensor", S.Chatzandroulis, A.Tserepi, D.Goustouridis, P.Normand, D.Tsoukalas, Microelectronic Engineering 61/62 (2002) 955-961.

J.7 "Low temperature wafer bonding for thin silicon film transfer", D. Goustouridis, K. Minoglou, S. Kolliopoulou, S. Chatzandroulis, P. Morfouli, P. Normand, D. Tsoukalas, Sensors and Actuators A 110 (2004) 401-406.

J.8 "Fabrication of Chemical Sensors based on Si/polymer bimorphs", S.Chatzandroulis, E.Tegou, D.Goustouridis, S.Polymenakos, D.Tsoukalas, Microelectronic Engineering 73-74 (2004) 847-851.

J.9 "Capacitive Type Chemical Sensors Using Thin Silicon/Polymer Bimorph Membranes", S.Chatzandroulis, E.Tegou, D.Goustouridis, S.Polymenakos, D.Tsoukalas, Sensor and Actuators B-Chem. 103 (2004) 392 – 396.

J.10 "Glass transition temperature monitoring in bilayer and patterned photoresist films", D.Niakoula, I.Raptis, D.Goustouridis, P.Argitis JPN. J Appl. Phys. 1 43 (2004) 5247 – 5248.

J.11 "Effects of Hot Carrier and Irradiation Stresses on Advanced Excimer Laser Annealed Polycrystalline Silicon Thin Film Transistrors", D.N. Kouvatsos, V.Davidovic, G.J.Papaioannou, N.Stojadinovic, L.Michalas, M.Exarchos, A.T.Voutsas, D.Goustouridis, Microelectron. Reliab. 44 (2004) 1631 – 1636.

J.12 "Protein Patterning by Micromachined Silicon Embossing on Polymer Surfaces", D.Goustouridis, K. Misiakos, P.S. Petrou, S.E. Kakabakos, Appl. Phys. Lett. 85 (2004) 6418 – 6420.

J.13 "Polymeric film characterization for use in Bimorph Chemical Sensors", S.Chatzandroulis, D.Goustouridis, I.Raptis, Microelectron. Eng. 78-79 (2005) 118 – 124.

J.14 "A Si/SiGe MOSFET utilizing low-temperature wafer bonding", S. Koliopoulou, P. Dimitrakis, D. Goustouridis, S. Chatzandroulis, P. Normand, D. Tsoukalas, H. Radamson, Microelectron. Eng. 78-79 (2005) 244 – 247.

J.15 "Characterization of Polymer Layers for Silicon Micromachined Bilayer Chemical Sensors Using White Light Interferometry", D.Goustouridis, K.Manoli, S.Chatzandroulis, M.Sanopoulou, I.Raptis, Sensor & Actuators B, 111-112 (2005) 549-554.

J.16 "Combination of integrated thermal flow and capacitive pressure sensors for high sensitivity flow measurements in both laminar and turbulent regions", G. Kaltsas, D. Goustouridis, A. G. Nassiopoulou, D. Tsoukalas, Journal of Physics: Conference Series, 10 (2005) 277-280.

J.17 "Characterization of polymers films for use in bimorph chemical sensor", S. Chatzandroulis, D. Goustouridis, I. Raptis, Journal of Physics: Conference Series , 10 (2005) 297-300.

J.18 "Layer by layer UV microlithography for the fabrication of embedded microchannels", M.Kitsara, M.Chatzichristidi, D.Niakoula, D.Goustouridis, K.Beltsios, P.Argitis, I.Raptis, Microelectronic Eng. 83 (2006) 1298-1301.

J.19 "A Lithographic Polymer Process Sequence for Chemical Sensing Arrays", M.Kitsara, D.Goustouridis, S.Chatzandroulis, K.Beltsios, I.Raptis, Microelectron. Eng. 83 (2006) 1192-1196.

J.20 "Metal nano-floating gate memory devices fabricated at low temperature", S. Koliopoulou, P. Dimitrakis. D. Goustouridis, P. Normand, C. Pearson, M.C. Petty, H. Radamson, D. Tsoukalas, Microelectron. Eng. 83 (2006) 1563-1566.

J.21 "Capacitive pressure sensors and switches fabricated using strain compensated SiGeB", S. Chatzandroulis, S. Koliopoulou, D. Goustouridis, D. Tsoukalas, Microelectron. Eng. 83 (2006) 1209-1211.

J.22 "A thermal convective accelerometer system based in a silicon sensor – study and packaging", G. Kaltsas, D. Goustouridis, A.G. Nassiopoulou, Sensor & Actuator A (2006) Sensor & Actuators A, 132 (2006) 147-153.

J.23 "Vapor sorption in thin supported polymer films studied by white light interferometry". K. Manoli, D. Goustouridis, S. Chatzandroulis, I. Raptis, E.S. Valamontes, M. Sanopoulou, Polymer 47 (2006) 6117-6122.

J.24 "Multi-wavelength interferometry and competing optical methods for the thermal probing of thin polymeric films". N. Vourdas, G. Karadimos, D. Goustouridis, E. Gogolides, A.G. Boudouvis, J.-H. Tortai, K. Beltsios, I. Raptis, Journal of Applied Polymer Science 102 (2006) 4764-4774.

J.25 "Humidity and solvent effects in spin-coated polythiophene-polystyrene blends", J. Jaczewska, A. Budkowski, A. Bernasik, I. Raptis, J. Raczkowska, D. Goustouridis, J. Rysz , M. Sanopoulou, J. Appl. Polymer Sci. 105 (2007) 67-69.

J.26 "A Silicon Thermal Accelerometer Without Solid Proof Mass Using Porous Silicon Thermal Isolation", D. Goustouridis, G. Kaltsas, A.G. Nassiopoulou, IEEE Sensors Journal, 7 (2007) 983-989.

J.27 "Fabrication of conductometric chemical sensors by photolithography of conductive polymer composites", N. Andreadis, S. Chatzandroulis, D. Goustouridis, Vasiliki Kosma,K. Beltsios, I. Raptis, Microelectronic Engineering 84 (2007) 1211–1214.

J.28 "Impact of structural parameters on the performance of silicon micromachined capacitive pressure sensors", V. Tsouti, G. Bikakis, S. Chatzandroulis, D. Goustouridis, P. Normand and D. Tsoukalas, Sensors and Actuators A, 137 (2007) 20-24.

J.29 "Single chip interdigitated electrode capacitive chemical sensor arrays", M. Kitsara, D. Goustouridis, S. Chatzandroulis, M. Chatzichristidi, I. Raptis, Th. Ganetsos, R. Igreja, C.J. Dias, Sensors and Actuators B, 127 (2007) 186 – 192.

J.30 "Composite Chemical Sensors Based on Carbon-Filled, Patterned Neagative Resists", S. Chatzandroulis, N. Andreadis, D. Goustouridis, L. Quercia, I. Raptis, K. Beltsios, Jpn. J. Appl. Phys. 46 (2007) 6423 – 6428.

J.31 "Sequential polymer lithography for chemical sensor arrays", M. Kitsara, K. Beltsios, D. Goustouridis, S. Chatzandroulis, I. Raptis, European Polymer Journal. 43 (2007) 4602 – 4612.

J.32 "Swelling of poly(3-alkylthiophene) films exposed to solvent vapours and humidity: Evaluation of solubility parameters", J. Jaczewska, I. Raptis, A. Budkowski, D. Goustouridis, J. Raczkowska, M. Sanopoulou, E. Pamuła, A. Bernasik, J. Rysz, Synthetic Metal, 157 (2007) 726 – 732.

J.33 "Surface nano/micro functionalization of PMMA thin films by 157 nm irradiation for sensing applications", E. Sarantopoulou, Z. Kollia, A.C. Cefalas, K. Manoli, M. Sanopoulou, D. Goustouridis, S. Chatzandroulis, I. Raptis, Appl. Surf. Sci. 254 (2008) 1710-1719.

J.34 "Molecular weight and processing effects on the dissolution properties of thin poly(methyl methacrylate) films", A. Kokkinis, E.S. Valamontes, D. Goustouridis, Th. Ganetsos, K. Beltsios, I. Raptis, Microelectronic Engineering, 85 (2008) 93 – 99.

J.35 "Realization and simulation of high aspect ratio micro/nano structures by proton beam writing", E. Valamontes, M. Chatzichristidi, N. Tsikrikas, D. Goustouridis, I. Raptis, J.A. van Kan, F. Watt, Jpn. J. Appl. Phys., 47 (2008) 8600 – 8605.

J.36 "Aqueous base developable: easy stripping, high aspect ratio negative photoresist for optical and proton beam lithography", M. Chatzichristidi, I. Rajta, Th. Speliotis, E. Valamontes, D Goustouridis, P. Argitis, I. Raptis, Microsystem Technologies 14 (2008) 1423-1428.

J.37 "Design and fabrication of a Si micromechanical capacitive array for DNA sensing", V. Tsouti, S.Chatzandroulis, D. Goustouridis, P. Normand, D. Tsoukalas, Microelectronic Engineering 85 (2008) 1359 – 1361.

J.38 "Liquid phase direct laser printing of polymers for chemical sensing applications", C. Boutopoulos, V. Tsouti, D. Goustouridis, S. Chatzandroulis, I. Zergioti, Applied Physics Letters 93 (2008) 191109.

J.39 "Ordering domains of spin-cast blends of conjugated and dielectric polymers on surfaces patterned by soft- and photo-lithography", J. Jaczewska, A. Budkowski, A. Bernasik, I. Raptis, E. Moons, D. Goustouridis, J. Haberko, J. Rysz, Soft Matter 5 (2009) 234 – 241.

J.40 "Detection of the biotin–streptavidin interaction by exploiting surface stress changes on ultrathin Si membranes", V. Tsouti, C. Boutopoulos, P. Andreakou, M. Ioannou, I. Zergioti, D. Goustouridis, D. Kafetzopoulos, D. Tsoukalas, P. Normand, S. Chatzandroulis, Microelectronic Engineering 86 (2009) 1495-1498.

J.41 "Polymer/BaTiO3 nanocomposites based chemocapacitive sensors", P. Oikonomou, K. Manoli, D. Goustouridis, I. Raptis, M. Sanopoulou, Microelectronic Engineering 86 (2009) 1286-1288.

J.42 "Electrical and optical and evaluation of polymer composites for chemical sensing applications", G. Dendrinos, L. Quercia, I. Raptis, S. Chatzandroulis, D. Goustouridis, K. Beltsios Microelectronic Engineering 86 (2009) 1289-1292.

J.43 "A novel system for displacement sensing, integrated on a plastic substrate", A. Petropoulos, G. Kaltsas, D. Goustouridis, Microelectronics Journal 40 (2009) 1387-1392.

J.44 "Demonstration of a new technology which allows direct sensor integration on flexible substrates", A. Petropoulos, D. Goustouridis, T. Speliotes, G. Kaltsas, EPJ Applied Physics (2009) 12507p1-12507p4.

J.45 "A regenerable flow-through affinity sensor for label-free detection of proteins and DNA", M. Zavali, P. S. Petrou, D. Goustouridis, I. Raptis, K. Misiakos, S. E. Kakabakos, Journal of Chromatography B 878 (2010) 237-242.

J.46 "A chemical sensor microarray realized by laser printing of polymers", V. Tsouti, , C. Boutopoulos, D. Goustouridis, I. Zergioti, P. Normand, D. Tsoukalas, S. Chatzandroulis,, Sensors and Actuators, B: Chemical, 150 (2010) 148-153.

J.47 "Integrated tool for the spreading, thermal treatment and in situ process monitoring of thick photoresist films", D. Goustouridis, I. Raptis, E. Valamontes, M. Chatzichrisitidi , Microelectronic Engineering, 87 (2010) 1115-1119.

J.48 "Polymer based chemical sensor array fabricated with conventional microelectronic processes", M. Kitsara, D. Goustouridis, E. Valamontes, P. Oikonomou, K. Beltsios, I. Raptis, Journal of Optoelectronics and Advanced Materials, 12 (2010) 1147-1152 .

J.49 "Vapor-induced swelling of supported methacrylic and siloxane polymer films: Determination of interaction parameters", K. Manoli, D. Goustouridis, I. Raptis, E. Valamontes, M. Sanopoulou, Journal of Applied Polymer Science, 116 (2010) 184-190.

J.50 "Detection of DNA mutations using a capacitive micro-membrane array", V. Tsouti, C. Boutopoulos, P. Andreakou, M. Ioannou, I. Zergioti, D. Goustouridis, D. Kafetzopoulos, D. Tsoukalas, P. Normand, S. Chatzandroulis, Biosensors and Bioelectronics, 26 (2010), 1588-1592.

J.51 "A Chemocapacitive Sensor Array System for gas sensing applications", S.Dimopoulos, M.Kitsara, D.Goustouridis, S.Chatzandroulis. I.Raptis, Sensor Lett. 9 (2011) p.577.

J.52 "Performance simulation, realization and evaluation of capacitive sensor arrays for the real time detection of volatile organic compounds", P.Oikonomou, G.P.Patsis, A.Botsialas, K.Manoli, D.Goustouridis, N.A.Pantazis, A.Kavadias, E.Valamontes, Th.Ganetsos, M.Sanopoulou, I.Raptis, Microelectron. Eng. 88 (2011) p. 2359.

J.53 "A reconfigurable multichannel capacitive sensor array interface", E.D.Kyriakis-Bitzaros, N.A.Stathopoulos, S.Pavlos, D.Goustouridis, S.Chatzandroulis, IEEE Transactions on Instrumentation and Measurement, 60 (2011) p.3214**.**

J.54 "Evaluation of capacitive surface stress biosensors", V.Tsouti, C.Boutopoulos, M.Ioannou, D.Goustouridis, D.Kafetzopoulos, I.Zergioti, D.Tsoukalas, P.Normand, S.Chatzandroulis, Microelectronic Engineering, 90 (2012) p.37.

J.55 "Compensation of temperature variations in chemcapacitive gas sensing systems", P.Oikonomou, A.Botsialas, D.Goustouridis, E.Valamontes, M.Sanopoulou, I.Raptis, Sensor Letters, 10 (2012) p.736.

J.56 "Chemocapacitor performance modeling by means of polymer swelling optical measurements", P.Oikonomou, A.Botsialas, K.Manoli, D Goustouridis, E.Valamontes, M.Sanopoulou, I.Raptis, G.P.Patsis, Sensors and Actuators, B: Chemical, 171-172 (2012), p.409.

J.57 "A miniaturized chemocapacitor system for the detection of volatile organic compounds", A.Botsialas, P.Oikonomou, D.Goustouridis, T.Ganetsos, I.Raptis, M.Sanopoulou, Sensors and Actuators, B: Chemical 177 (2013) p.776.

J.58 "Chemocapacitive sensor arrays on Si substrate: towards the hybrid integration with read-out electronics", P.Oikonomou, A.Botsialas, A.Olziersky, D.Goustouridis, A.Speliotis, I.Raptis, M.Sanopoulou, Microelectron. Eng. 119 (2014) p.11.

J.59 "Lithographically Tuned One Dimensional Polymeric Photonic Crystal Arrays", D. Chavelas, P. Oikonomou, A. Botsialas, P. Argitis, N. Papanikolaou, D. Goustouridis, K. Beltsios, E. Lidorikis, I. Raptis, M.C hatzichristidi, Optics & Laser Technology 68 (2015) p.105.

J.60 "A label-free flow-through immunosensor for determination of total- and free-PSA in human serum samples based on white-light reflectance spectroscopy", G. Koukouvinos, P.S. Petrou, K. Misiakos, D. Drygiannakis, I. Raptis, D. Goustouridis, S.E. Kakabakos, Sensors and Actuators B: Chemical 209 (2015) p.1041.

J.61 "Assessment of goat milk adulteration with a label-free monolithically integrated optoelectronic biosensor", M. Angelopoulou, A. Botsialas, A. Salapatas, P. Petrou, W. Haasnoot, E. Makarona, G. Jobst, D. Goustouridis, A. Siafaka-Kapadai, I. Raptis, K. Misiakos, Sotirios, Kakabakos, Anal Bioanal Chem, 22 March 2015, DOI 10.1007/s00216-015-8596-3.

J.62 "Simultaneous determination of CRP and D-dimer in human blood plasma samples with White Light Reflectance Spectroscopy", G. Koukouvinos, P. Petrou, K. Misiakos, D. Drygiannakis, I. Raptis, G. Stefanitsis, S. Martini, D. Nikita, D. Goustouridis, I. Moser, G. Jobst, S. Kakabakos, Biosensors and Bioelectronics 84 (2016) p.89**.**

J.63 "A wireless sensing system for monitoring the workplace environment of an industrial installation", P. Oikonomou, A. Botsialas, A. Olziersky, I. Kazas, I. Stratakos, S. Katsikas, D. Dimas, K. Mermikli, G. Sotiropoulos, D. Goustouridis, I. Raptis, M. Sanopoulou, Sensors and Actuators B: Chemical 224 (2016) p.266.

J.64 "Fast simultaneous detection of three pesticides by a White LightReflectance Spectroscopy sensing platform", G. Koukouvinos, Z. Tsialla, P. S. Petrou, K. Misiakos, D. Goustouridis, A. U. Moreno, A. R. Fernandez-Alba, I. Raptis, S. E. Kakabakos, Sensors and Actuators B: Chemical 238 (2017) p.1214.

J.65 "Fast label-free detection of C-reactive protein using broad-band Mach-Zehnder interferometers integrated on silicon chips", A. Psarouli, A. Botsialas, A. Salapatas, G. Stefanitsis, D. Nikita, G. Jobst, N. Chaniotakis, D. Goustouridis, E. Makarona, P.S. Petrou, I. Raptis, K. Misiakos, S.E. Kakabakos, Talanta 165 (2017) p.458.

J.66 "Development and bioanalytical applications of a white light reflectance spectroscopy label-free sensing platform", G. Koukouvinos, P. Petrou, D. Goustouridis, K. Misiakos, S. Kakabakos, I.Raptis, Biosensors vol.7, (2017), Article number 46.

J.67 "White light reflectance spectroscopy biosensing system for fast quantitative prostate specific antigen determination in forensic samples", G. Koukouvinos, A. Metheniti, C.-E. Karachaliou, D. Goustouridis, E. Livaniou, K. Misiakos, I. Raptis, A. Kondili, P. Miniati, P. Petrou, S. Kakabakos, Talanta vol.175 (2017) p.443.

J.68 "Rapid C-reactive protein determination in whole blood with a White Light Reflectance Spectroscopy label-free immunosensor for Point-of-Care applications", G. Koukouvinos, D. Goustouridis, K. Misiakos, S. Kakabakos, I. Raptis, P. Petrou, Sensors and Actuators, B: Chemical, vol.260, (2018) p.282.

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