

Αναπλ. Καθ. Χριστίνα Γ. Σιοντόρου

Στοιχεία Γραφείο: Κεντρικό Κτίριο Πανεπιστημίου Πειραιώς,
Επικοινωνίας: Γραφείο 311, Καραολή & Δημητρίου 80,
18534 Πειραιάς
Τηλ. +302104142453

Εργαστήριο: Κτίριο Βιομηχανικής Διοίκησης &
Τεχνολογίας, Δεληγιώργη 107, 1^{ος} Όροφος
Τηλ. +302104142368

Email: csiontor@unipi.gr

Σπουδές	2000: Διδακτορικό δίπλωμα από το Πανεπιστήμιο Αθηνών, Τμήμα Χημείας, Εργαστήριο Αναλυτικής Χημείας. Θέμα διατριβής: Κατασκευή Βιοαισθητήρων που στηρίζονται σε Σταθεροποιημένες Διστρωματικές Λιπιδικές Μεμβράνες (2000) 1993: BSc (Hons) του Πανεπιστημίου Sunderland (UK) στις Βιοϊατρικές Επιστήμες (Biomedical Sciences) – Ισοτιμία ΔΙ.Κ.Α.Τ.Σ.Α: 22/4/1994
Ακαδημαϊκή Σταδιοδρομία	<p>Τμήμα Βιομηχανικής Διοίκησης & Τεχνολογίας, ΠαΠει</p> <p>Γνωστικό αντικείμενο: Σχεδιασμός Προϊόντων Χημικής Τεχνολογίας</p> <ul style="list-style-type: none">• 08/2018-σήμερα: Αναπλ. Καθηγήτρια (ΦΕΚ 879/Γ'/6-8-2018)• 12/2013-08/2018: Επικ. Καθηγήτρια επί θητεία (ΦΕΚ 1420/Γ'/6-12-2013)• 12/2008-11/2013: Λέκτορας (ΦΕΚ 1140/Γ'/22-12-2008)• 10/2003-08/2007: Διδάσκουσα βάσει ΠΔ407/80 <p>Άλλα Ιδρύματα</p> <ul style="list-style-type: none">• Οκτ/2004-Ιουλ/2006 & Οκτ/2009-σήμερα: Μέλος Συνεργαζόμενου Εκπαιδευτικού Προσωπικού (ΣΕΠ), Σχολή Κοινωνικών Επιστημών, Πρόγραμμα Σπουδών στη Διοίκηση Επιχειρήσεων και Οργανισμών, Ελληνικό Ανοικτό Πανεπιστήμιο (ΕΑΠ) (εξ αποστάσεως εκπαίδευση). <p>Αντικείμενο: διοίκηση ολικής ποιότητας, περιβαλλοντική διαχείριση</p> <ul style="list-style-type: none">• Οκτ/2003-Σεπ/2005: Τμήμα Κλωστοϋφαντουργίας, ΤΕΙ Πειραιώς. Εργαστηριακός συνεργάτης. <p>Αντικείμενο: ηλεκτροχημεία, χημική κινητική (θεωρία, εργαστήριο)</p>
Επαγγελματική Εμπειρία	<ul style="list-style-type: none">• Σεπ/1999-Αυγ/2003: Σύμβουλος Φαρμακευτικών Επιχειρήσεων, Pharmassist, Contract Research Organization <p>Αντικείμενο: κανονιστικές υποθέσεις (εθνικές αρχές & αρχές ΕΕ), ανάπτυξη προϊόντος, φαρμακοεπαγρύπνηση, κλινικές μελέτες, φαρμακευτικά προϊόντα ανθρωπίνης χρήσης, δρόγες, ομοιοπαθητικά φάρμακα και συμπληρώματα διατροφής, χημικά καθαριστικά, απολυμαντικά και βιοκτόνα</p>

	<ul style="list-style-type: none"> Σεπ/1998-Αυγ/1999: Τμήμα Κανονιστικών Υποθέσεων και Έρευνας & Ανάπτυξης, ELPEN A.E. Φαρμακευτική Βιομηχανία <p>Αντικείμενο: κανονιστικές υποθέσεις (ΕΟΦ), ανάπτυξη φαρμακευτικών προϊόντων, φαρμακευτική ανάλυση, ανάπτυξη αναλυτικών μεθόδων, αξιολόγηση διαδικασίας παρασκευής, φαρμακευτική νομοθεσία</p>						
Επισκόπηση Έρευνητικής Δραστηριότητας	<ul style="list-style-type: none"> 67 δημοσιεύσεις, εκ των οποίων 55 σε περιοδικά της βάσης Web of Science™ 45 δημοσιεύσεις σε Πρακτικά Διεθνών Συνεδρίων μετά από κρίση 12 Κεφάλαια σε βιβλία των διεθνών εκδοτικών οίκων CRC Press, Kluwer, Springer, Wiley, Blackwell, Elsevier, Academic Press Δείκτες απήχησης (11/3/2023, εξαιρουμένων των αυτο-αναφορών) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; padding-bottom: 5px;">Web of Science™</td><td style="text-align: center; padding-bottom: 5px;">1067 ετεροαναφορές, h-index=23</td></tr> <tr> <td style="text-align: center; padding-bottom: 5px;">Scopus</td><td style="text-align: center; padding-bottom: 5px;">1487 ετεροαναφορές, h-index=24</td></tr> <tr> <td style="text-align: center; padding-bottom: 5px;">Google scholar</td><td style="text-align: center; padding-bottom: 5px;">2193 ετεροαναφορές, h-index=27</td></tr> </table> <ul style="list-style-type: none"> 39.1% (9 δημοσιεύσεις) στο ανώτατο 25% των δημοσιεύσεων με τις περισσότερες αναφορές παγκοσμίως Μέλος της Συντακτικής Επιτροπής του επιστημονικού περιοδικού Biosensors του εκδοτικού οίκου MDPI Συμμετοχή σε 6 Ευρωπαϊκά Έρευνητικά Προγράμματα Αξιολογητής σε 13 επιστημονικά περιοδικά των διεθνών εκδοτικών οίκων Dove, Elsevier, Springer, Taylor & Francis, Wiley, σε θέματα περιβαλλοντικής διαχείρισης, περιβαλλοντικής παρακολούθησης, σχεδιασμού φαρμάκων, κλινικών διαγνωστικών, ηλεκτροχημείας, βιοτεχνολογίας, τοξικολογίας 5^ο βραβείο στον 1^ο Διαγωνισμό i-Bank Καινοτομία και Τεχνολογία της Εθνικής Τράπεζας της Ελλάδας (2011) 	Web of Science™	1067 ετεροαναφορές, h-index=23	Scopus	1487 ετεροαναφορές, h-index=24	Google scholar	2193 ετεροαναφορές, h-index=27
Web of Science™	1067 ετεροαναφορές, h-index=23						
Scopus	1487 ετεροαναφορές, h-index=24						
Google scholar	2193 ετεροαναφορές, h-index=27						
Διδακτικό Έργο	<p>Τμήμα Βιομηχανικής Διοίκησης & Τεχνολογίας</p> <ul style="list-style-type: none"> Διδακτορικές Διατριβές: 2 ολοκληρωμένες Διπλωματικές Εργασίες ΠΜΣ: 3 σε εξέλιξη, 64 ολοκληρωμένες Πρόγραμμα Προπτυχιακών Σπουδών (τρέχον) <ul style="list-style-type: none"> Στοιχεία Φυσικών Επιστημών (εξ. Α') Εργαστήριο Βιομηχανικής Τεχνολογίας (εξ. Β') Βιομηχανικοί Κλάδοι I (εξ. Γ') Βιομηχανικοί Κλάδοι II (εξ. Δ') Μεθοδολογία Έρευνας (εξ. Ζ') Βιοτεχνολογία (εξ. Η') Πρόγραμμα Μεταπτυχιακό Σπουδών (τρέχον) <ul style="list-style-type: none"> Κλιματική Αλλαγή & Βιωσιμότητα (εξ. Α') 						

	<ul style="list-style-type: none"> • Περιβαλλοντικά Πρότυπα & Πιστοποιήσεις (εξ. Β') <p>Σχολή Κοινωνικών Επιστημών, ΕΑΠ, Πρόγραμμα Σπουδών στην Διοίκηση & Οργάνωση Επιχειρήσεων (ΔΕΟ)</p> <ul style="list-style-type: none"> • Πρόγραμμα Προπτυχιακών Σπουδών (τρέχον) <ul style="list-style-type: none"> • Διοίκηση Ολικής Ποιότητας & Διαχείριση Περιβάλλοντος (4^ο έτος σπουδών)
Διοικητικό Έργο	<p>Τμήμα Βιομηχανικής Διοίκησης & Τεχνολογίας</p> <p><i>τρέχον</i></p> <ul style="list-style-type: none"> • Μέλος της Ομάδας Εσωτερικής Αξιολόγησης • Μέλος της Επιτροπής Προγράμματος Σπουδών • Σύμβουλος Καθηγήτρια για φοιτητές/τριες στο 4+1 έτος σπουδών <p><i>προηγούμενες υέσεις</i></p> <ul style="list-style-type: none"> • Μέλος της Κοσμητείας της Σχολής Ναυτιλίας & Βιομηχανίας • Αναπληρώτρια Διευθύντρια του Μεταπτυχιακού Προγράμματος Σπουδών <p>Πανεπιστήμιο Πειραιώς</p> <p><i>προηγούμενες υέσεις</i></p> <ul style="list-style-type: none"> • Μέλος της Μονάδας Διασφάλισης Ποιότητας του ΠαΠει <p>ΕΑΠ, Σχολή Κοινωνικών Επιστημών, Πρόγραμμα Σπουδών στην Διοίκηση & Οργάνωση Επιχειρήσεων (ΔΕΟ)</p> <p><i>τρέχον</i></p> <ul style="list-style-type: none"> • Βοηθός Συντονιστή στη Θεματική Ενότητα Διοίκηση Ολικής & Διαχείριση Περιβάλλοντος (ΔΕΟ42)
Ερευνητικά Ενδιαφέροντα & Δραστηριότητες	<p>Basic and applied research</p> <ul style="list-style-type: none"> • Σχεδιασμός και ανάπτυξη μετρητικών συσκευών για την παρακολούθηση περιβαλλοντικών, βιομηχανικών και κλινικών παραμέτρων: εργαστηριακοί αναλυτές, συσκευές πεδίου, νανοαισθητήρες, αισθητήρες διπλής ανίχνευσης, συστοιχίες, δίκτυα περιβαλλοντικής (βιο)παρακολούθησης. • Σχεδιασμός προϊόντων βιομηχανικής και κλινικής βιοτεχνολογίας, με έμφαση στη βελτιστοποίηση φυσικοχημικών παραμέτρων. • Προστασία περιβαλλοντικών συστημάτων: μοντελοποίηση συστημάτων, ατμοσφαιρική ρύπανση, επεξεργασία υγρών αποβλήτων, αξιολόγηση της ποιότητας του περιβάλλοντος, περιβαλλοντική παρακολούθηση. • Διαχείριση γνώσης: οντολογικές πλατφόρμες, ανάλυση δένδρου σφαλμάτων, μεταφορά τεχνογνωσίας, καινοτομία, έρευνα & ανάπτυξη. • Χαρτογράφηση τεχνολογίας: αξιολόγηση τεχνολογίας, εξέλιξη τεχνολογίας, σχήματα συνεργασίας μεταξύ πανεπιστημίων-βιομηχανίας

Ερευνητικά προγράμματα

- ΘΑΛΗΣ –Ανάπτυξη Νέου Υλικού από Απορριπτόμενη Βιομάζα για την Προσρόφηση Υδρογονανθράκων σε Υδάτινο Περιβάλλον» (1/10/11-30/09/2015) -Τμήμα Βιομηχανικής Διοίκησης και Τεχνολογίας, Πανεπιστήμιο Πειραιώς. Θέση: Μέλος της κύριας ερευνητικής ομάδας.
- Πυθαγόρας II EU-GR Ερευνητικό Πρόγραμμα (Περιβάλλον) για το σχεδιασμό, ανάπτυξη και εφαρμογή, βιοδεικτών/βιοαισθητήρων (2005-2007) –Τμήμα Βιομηχανικής Διοίκησης και Τεχνολογίας, Πανεπιστήμιο Πειραιώς. Θέση: Κύριος ερευνητής.
- University of Coimbra, Portugal (1998) Τμήμα Χημείας - European Science Foundation και Τμήμα Χημείας, Ε.Κ.Π.Α. Θέση: Επισκέπτης ερευνητής.
- INCO-COPERNICUS Project IC15-CT96-0804 “Biosensors for direct Monitoring of Environmental Pollutants in the Field” (1996-1998) –Τμήμα Χημείας, Ε.Κ.Π.Α. Θέση: Ερευνητής.
- COPERNICUS CIPA CT-94-0231 “Novel biosensors based on bilayer lipid membranes for the determination of compounds of biomedical pharmaceutical, environmental and industrial interest” (1994-1997) –Τμήμα Χημείας, Ε.Κ.Π.Α. Θέση: Ερευνητής
- Πρόγραμμα COMET: Βιοχημική διάγνωση ασθενειών θυρεοειδούς (1991-1992). Ε.Κ.Π.Α, Ιατρική Σχολή, Τμήμα Ενδοκρινολογίας, Θέση: Βοηθός ερευνητής.

Δημοσιεύσεις

Δημοσιεύσεις σε επιστημονικά περιοδικά της βάσης Web of Science™

- (1) **Siontorou, C.G.** (2023). Fair development transition of lignite areas: key challenges and sustainability prospects. *Sustainability*, 15, 12323. <https://doi.org/10.3390/su151612323>
- (2) **Siontorou, C.G.**, Georgopoulos, K.N. (2021). Metal-supported self-assembled bilayer lipid membrane incorporated with peroxidase for the detection of peroxide. *Results in Engineering* 12, 100312. <https://doi.org/10.1016/j.rineng.2021.100312>
- (3) **Siontorou, C.G.**, Georgopoulos, K.N. (2021). Boosting the advantages of biosensors: Niche applicability and fitness for environmental purpose. *Trends in Environmental Analytical Chemistry* 32, e00146. <https://doi.org/10.1016/j.teac.2021.e00146>
- (4) **Siontorou, C.G.**, Georgopoulos, K.N. (2021). A Ready-to-Use Metal-Supported Bilayer Lipid Membrane Biosensor for the Detection of Phenol in Water. *Membranes* 11, 871. <https://doi.org/10.3390/membranes11110871>
- (5) Nikoleli, G.-P., Nikolelis, D., **Siontorou, C.G.**, Nikolelis, M.T., Bratakou, S., Bendos, D.K. (2019). Recent lipid membrane-based biosensing platforms. *Applied Sciences – Basel*, 9, 1745. <https://doi.org/10.3390/app9091745>
- (6) Nikoleli, G.-P., Nikolelis, D., **Siontorou, C.G.**, Nikolelis, M.T., Karapetis, S. (2018). The application of lipid membranes in biosensing. *Membranes*, 8, 108. <https://doi.org/10.3390/membranes8040108>
- (7) Nikoleli, G.-P., Nikolelis, D., **Siontorou, C.G.**, Nikolelis, M.T., Karapetis, S. (2018). Potentiometric biosensing applications of graphene electrodes with stabilized polymer lipid membranes. *Chemosensors*, 6, 25. <https://doi.org/10.3390/chemosensors6030025>
- (8) Nikoleli, G.-P., Nikolelis, D., **Siontorou, C.G.**, Karapetis, S., Nikolelis, M.T. (2018). Application of biosensors based on lipid membranes for the rapid detection of toxins. *Biosensors – Basel*, 8, 61. <https://doi.org/10.3390/bios8030061>

- (9) Nikoleli, G.-P., Nikolelis, D., **Siontorou, C.G.**, Karapetis, S. (2018). Lipid membrane nanosensors for environmental monitoring: the art, the opportunities, and the challenges. *Sensors*, 18, 284. <https://doi.org/10.3390/s1801028>
- (10) **Siontorou, C.G.**, Nikoleli, G.-P., Nikolelis, D.P., Karapetis, S.K. (2017). Artificial lipid membranes: past, present, and future. *Membranes*, 7, 38. <https://doi.org/10.3390/membranes7030038>
- (11) Bratakou, S., Nikoleli, G.-P., **Siontorou, C.G.**, Nikolelis, D.P., Karapetis, S.K., Tzamtzis, N. (2017). Development of an electrochemical biosensor for the rapid detection of saxitoxin based on air stable lipid films with incorporated anti-STX using graphene electrodes. *Electroanalysis*, 29, 990-997. <https://doi.org/10.1002/elan.201600652>
- (12) **Siontorou, C.G.**, Keramidas, V.T., Nikoleli, G.-P., Nikolelis, D.P., Karapetis, S., Bratakou, S., Tzamtzis, N. (2017). Nano-enabled medical devices based on biosensing principles: Technology basis and new concepts. *AIMS Materials Science*, 4, 250-266. <https://doi.org/10.3390/c3010009>
- (13) Nikoleli, G.-P., **Siontorou, C.G.**, Nikolelis, D.P., Bratakou, S., Karapetis, S., Tzamtzis, N. (2017). Biosensors based on lipid modified graphene microelectrodes. *C-Journal of Carbon Research*, 3, 3010009. <https://doi.org/10.3390/c3010009>
- (14) **Siontorou, C.G.**, Georgopoulos, K.N., Nalantzi, M.-M. (2017). Designing biosensor networks for environmental risk assessment of aquatic systems. *Critical Reviews in Environmental Science and Technology*, 47, 40-63. <https://doi.org/10.1080/10643389.2016.1278141>
- (15) Bratakou, S., Nikoleli, G.-P., **Siontorou, C.G.**, Nikolelis, D.P., Tzamtzis, N. (2016). Electrochemical biosensor for naphthalene acetic acid in fruits and vegetables based on lipid films with incorporated auxin-binding protein receptor using graphene electrodes. *Electroanalysis* 28, 2171-2177. <https://doi.org/10.1002/elan.201600152>
- (16) **Siontorou, C.G.**, Georgopoulos, K.N., Nikoleli, G.-P., Nikolelis, D.P., Karapetis, S.K., Bratakou, S. (2016). Protein-based graphene biosensors: optimizing artificial chemoreception in bilayer lipid membranes. *Membranes*, 6, 43. <https://doi.org/10.3390/membranes6030043>
- (17) Karapetis, S., Nikoleli, G.-P., **Siontorou, C.G.**, Nikolelis, D.P., Tzamtzis, N., Psaroudakis, N. (2016). Development of an electrochemical biosensor for the rapid detection of cholera toxin based on air stable lipid films with incorporated ganglioside GM1 using graphene electrodes. *Electroanalysis*, 28, 1584-1590. <https://doi.org/10.1002/elan.201501134>
- (18) **Siontorou, C.G.**, Georgopoulos, K.N. (2016). A biosensor platform for soil management: the case of nitrites. *Journal of Cleaner Production*, 111, 133-142. <https://doi.org/10.1016/j.jclepro.2015.07.038>
- (19) **Siontorou, C.G.**, Batzias, F.A. (2014). Determining the sources of measurement uncertainty in environmental cell-based biosensing. *IEEE Transactions on Instrumentation and Measurement*, 63, 794-804. <https://doi.org/10.1109/TIM.2013.2283161>
- (20) **Siontorou, C.G.** (2013). Nanobodies as novel agents for disease diagnosis and therapy. *International Journal of Nanomedicine*, 8, 4215-4227. <https://doi.org/10.2147/IJN.S39428>
- (21) **Siontorou, C.G.**, Batzias, F.A. (2013). A methodological combined framework for roadmapping biosensor research: a fault tree analysis approach within a strategic technology evaluation frame. *Critical Reviews in Biotechnology*, 34, 31-55. <https://doi.org/10.3109/07388551.2013.790339>
- (22) Michaloliakos, A.I., Nikoleli, G.P., **Siontorou, C.G.**, Nikolelis, D.P. (2012). Rapid flow injection electrochemical detection of Arochlor 1242 using stabilized lipid membranes with incorporated sheep anti-PCB antibody. *Electroanalysis*, 24, 495-501. <https://doi.org/10.1002/elan.201100393>

- (23) Batzias, F.A., **Siontorou, C.G.** (2012). Creating a specific domain ontology for supporting R&D in science-based disciplines – The case of biosensors. *Expert Systems with Applications*, 39, 9994-10015. <https://doi.org/10.1016/j.eswa.2012.01.216>
- (24) **Siontorou, C.G.**, Batzias, F.A. (2011). Error identification/propagation/remediation in biomonitoring surveys-A knowledge-based approach towards standardization via fault tree analysis. *Ecological Indicators*, 11, 564-581. <https://doi.org/10.1016/j.ecolind.2010.07.013>
- (25) Batzias, F.A., **Siontorou, C.G.**, Spanidis, P. M.-P. (2011). Designing a reliable leak bio-detection system for natural gas pipelines. *Journal of Hazardous Materials*, 186, 35-58. <https://doi.org/10.1016/j.jhazmat.2010.09.115>
- (26) **Siontorou, C.G.**, Batzias, F.A., Tsakiri, V. (2010). A knowledge-based approach to online fault diagnosis of FET biosensors. *IEEE Transactions on Instrumentation and Measurement*, 59, 2345-2364. <https://doi.org/10.1109/TIM.2009.2036464>
- (27) **Siontorou, C.G.**, Batzias, F.A. (2010). Innovation in biotechnology: moving from academic research to product development – The case of biosensors. *Critical Reviews in Biotechnology*, 30, 79-98. <https://doi.org/10.3109/07388550903427298>
- (28) Batzias, F.A., **Siontorou, C.G.** (2009). Measuring uncertainty in lichen biomonitoring of atmospheric pollution: The case of SO₂. *IEEE Transactions on Instrumentation and Measurement*, 58, 3207-3220. <https://doi.org/10.1109/TIM.2009.2017162>
- (29) **Siontorou, C.G.**, Batzias, F.A. (2008). Carbohydrate detection failure analysis via biosensoring. *IEEE Transactions on Instrumentation and Measurement*, 57, 2856-2867. <https://doi.org/10.1109/TIM.2008.926051>
- (30) Batzias, A.F., **Siontorou, C.G.** (2008). A new scheme for biomonitoring heavy metal concentrations in semi-natural wetlands. *Journal of Hazardous Materials*, 158, 340-358. <https://doi.org/10.1016/j.jhazmat.2008.01.092>
- (31) Batzias, F.A., **Siontorou, C.G.** (2007). A novel system for environmental monitoring through a cooperative/ synergistic scheme between bioindicators and biosensors. *Journal of Environmental Management*, 82, 221-239. <https://doi.org/10.1016/j.jenvman.2005.12.023>
- (32) Batzias, F.A., **Siontorou, C.G.** (2006). A knowledge-based approach to environmental biomonitoring. *Environmental Monitoring and Assessment*, 123, 167-197. <https://doi.org/10.1007/s10661-006-9190-0>
- (33) Batzias, F.A., **Siontorou, C.G.** (2005). Investigating the causes of biosensor SNR decrease by means of fault tree analysis. *IEEE Transactions on Instrumentation and Measurement*, 54, 1395-1406. <https://doi.org/10.1109/TIM.2005.851056>
- (34) Nikolelis, D.P., Raftopoulou, G., **Siontorou, C.G.** (2005). Preparation of a selective receptor for ephedrine for the rapid electrochemical detection of ephedrine in human urine using stabilized in air lipid films with incorporated ephedrine receptor. *Electroanalysis*, 17, 1870-1877. <https://doi.org/10.1002/elan.200503317>
- (35) Nikolelis, D.P., **Siontorou, C.G.**, Theoharis, G., Bitter, N. (2005). Flow injection analysis of mixtures of dopamine, adrenaline and ephedrine in human biofluids using stabilized after storage in air lipid membranes with a novel incorporated resorcin[4]arene receptor. *Electroanalysis*, 17, 887-894. <https://doi.org/10.1002/elan.200403168>
- (36) Nikolelis, D.P., Simantiraki, M.G., **Siontorou, C.G.**, Toth, K. (2005). Flow injection analysis of carbofuran in foods using air stable lipid film based acetylcholinesterase biosensor. *Analytica Chimica Acta*, 537, 169-177. <https://doi.org/10.1016/j.aca.2004.12.086>

- (37) **Siontorou, C.G.**, Andreou, V.G., Nikolelis, D.P., Krull, U.J. (2000). Flow injection monitoring of aflatoxin M-1 in cheese using filter-supported bilayer lipid membranes with incorporated DNA. *Electroanalysis* 12, 747-751. [https://doi.org/10.1002/1521-4109\(200006\)12:10<747::AID-ELAN747>3.0.CO;2-F](https://doi.org/10.1002/1521-4109(200006)12:10<747::AID-ELAN747>3.0.CO;2-F)
- (38) **Siontorou, C.G.**, Nikolelis, D.P., Krull, U.J. (2000). Flow injection monitoring and analysis of mixtures of hydrazine compounds using filter-supported bilayer lipid membranes with incorporated DNA. *Analytical Chemistry*, 72, 180-186. <https://doi.org/10.1021/ac990618v>
- (39) **Siontorou, C.G.**, Nikolelis, D.P., Tarus, B., Dumbrava, J., Krull, U.J. (1998). DNA biosensor based on self-assembled bilayer lipid membranes for the detection of hydrazines. *Electroanalysis*, 10, 691-694. [https://doi.org/10.1002/\(SICI\)1521-4109\(199808\)10:10<691::AID-ELAN691>3.0.CO;2-N](https://doi.org/10.1002/(SICI)1521-4109(199808)10:10<691::AID-ELAN691>3.0.CO;2-N)
- (40) **Siontorou, C.G.**, Nikolelis, D.P., Miernik, A., Krull, U.J. (1998). Rapid methods for detection of Aflatoxin M-1 based on electrochemical transduction by self-assembled metal-supported bilayer lipid membranes (s-BLMs) and on interferences with transduction of DNA hybridization. *Electrochimica Acta*, 43, 3611-3617. [https://doi.org/10.1016/S0013-4686\(98\)00108-X](https://doi.org/10.1016/S0013-4686(98)00108-X)
- (41) Katrivanos, P.L., Purnell, A.J., Aleksandridis, A.A., **Siontorou, C.G.**, White, C. (1998). An integrated system connected to biosensing systems based on self-assembled metal-supported bilayer lipid membranes. *Laboratory Robotics and Automation* 1998;10:239-246. [https://doi.org/10.1002/\(SICI\)1098-2728\(1998\)10:4<239::AID-LRA7>3.0.CO;2-5](https://doi.org/10.1002/(SICI)1098-2728(1998)10:4<239::AID-LRA7>3.0.CO;2-5)
- (42) **Siontorou, C.G.**, Nikolelis, D.P. (1997). Cyanide ion minisensor based on methemoglobin incorporated in metal supported self-assembled bilayer lipid membranes and modified with platelet-activating factor. *Analytica Chimica Acta*, 355, 227-234. [https://doi.org/10.1016/S0003-2670\(97\)00510-2](https://doi.org/10.1016/S0003-2670(97)00510-2)
- (43) **Siontorou, C.G.**, Nikolelis, D.P., Krull, U.J. (1997). A carbon dioxide biosensor based on hemoglobin incorporated in metal supported bilayer lipid membranes (BLMs): Investigations for enhancement of response characteristics by using platelet-activating factor. *Electroanalysis*. 9, 1043-1048. <https://doi.org/10.1002/elan.1140091403>
- (44) **Siontorou, C.G.**, Nikolelis, D.P., Piunno, P.A.E., Krull, U.J. (1997). Detection of DNA hybridization using self-assembled bilayer lipid membranes (BLMs). *Electroanalysis*, 9, 1067-1071. <https://doi.org/10.1002/elan.1140091407>
- (45) Novotny, I., Rehacek, V., Tvarozek, V., Nikolelis, D.P., Andreou, V.G., **Siontorou, C.G.**, Ziegler, W. (1997). Stabilized bilayer lipid membranes (BLMs) on agar thin film electrode system support. *Materials Science & Engineering C-Biomimetic Materials Sensors and Systems*, 5, 55-58. [https://doi.org/10.1016/S0928-4931\(97\)00022-2](https://doi.org/10.1016/S0928-4931(97)00022-2)
- (46) **Siontorou, C.G.**, Nikolelis, D.P., Krull, U.J., Chiang, K.L. (1997). A triazine herbicide minisensor based on surface-stabilized bilayer lipid membranes. *Analytical Chemistry*, 69, 3109-3114. <https://doi.org/10.1021/ac970113+>
- (47) Nikolelis, D.P., **Siontorou, C.G.** (1997). Hemoglobin modified bilayer lipid membranes (BLMs) biosensor for carbon dioxide detection. *Bioelectrochemistry* (ex. *Bioelectrochemistry and Bioenergetics*), 42, 71-75. [https://doi.org/10.1016/S0302-4598\(96\)05141-0](https://doi.org/10.1016/S0302-4598(96)05141-0)
- (48) Nikolelis, D.P., **Siontorou, C.G.** (1997). Stabilized filter-supported bilayer lipid membranes (BLMs) for automated flow monitoring of compounds of clinical, pharmaceutical, environmental and industrial interest. *Journal of Analytical Methods in Chemistry* (ex. *Automated Methods and Management in Chemistry*), 19, 1-8. <https://doi.org/10.1155/S1463924697000011>

- (49) Nikolelis, D.P., **Siontorou, C.G.**, Andreou, V.G. (1997). Biosensors based on bilayer lipid membranes for automated continuous monitoring or rapid screening of environmental pollutants. *Laboratory Robotics and Automation*, 9, 285-295. [https://doi.org/10.1002/\(SICI\)1098-2728\(1997\)9:6<285::AID-LRA2>3.0.CO;2-X](https://doi.org/10.1002/(SICI)1098-2728(1997)9:6<285::AID-LRA2>3.0.CO;2-X)
- (50) Nikolelis, D.P., **Siontorou, C.G.** (1996). Flow injection monitoring and analysis of mixtures of simazine, atrazine, and propazine using filter-supported bilayer lipid membranes (BLMs). *Electroanalysis*, 8, 907-912. <https://doi.org/10.1002/elan.1140081011>
- (51) **Siontorou, C.G.**, Brett, A.M.O., Nikolelis, D.P. (1996). Evaluation of a glassy carbon electrode modified by a bilayer lipid membrane with incorporated DNA. *Talanta*, 43, 1137-1144. [https://doi.org/10.1016/0039-9140\(96\)01881-4](https://doi.org/10.1016/0039-9140(96)01881-4)
- (52) Nikolelis, D.P., **Siontorou, C.G.**, Krull, U.J., Katrivanos, P.L. (1996). Ammonium ion minisensors from self-assembled bilayer lipid membranes using gramicidin as an ionophore. Modulation of ammonium selectivity by platelet-activating factor. *Analytical Chemistry*, 68, 1735-1741. <https://doi.org/10.1021/ac950403v>
- (53) Nikolelis, D.P., **Siontorou, C.G.**, Andreou, V.G., Viras, K.G., Krull, U.J. (1995). Bilayer-lipid membranes as electrochemical detectors for flow injection immunoanalysis. *Electroanalysis*, 7, 1082-1089. <https://doi.org/10.1002/elan.1140071116>
- (54) Nikolelis, D.P., **Siontorou, C.G.**, Andreou, V.G., Krull, U.J. (1995). Stabilized bilayer-lipid membranes for flow-through experiments. *Electroanalysis*, 7, 531-536. <https://doi.org/10.1002/elan.1140070605>
- (55) Nikolelis, D.P., **Siontorou, C.G.**, Bilayer-lipid membranes for flow-injection monitoring of acetylcholine, urea, and penicillin. *Analytical Chemistry*, 67, 936-944. <https://doi.org/10.1021/ac00101a022>

Κεφάλαια σε βιβλία

- (1) **Siontorou, C.G.** (2022). University-Industry Relationships for the Development and Commercialization of Biosensors. In: Thouand, G. (eds), *Handbook of Cell Biosensors*, Springer, Cham. https://link.springer.com/content/pdf/10.1007/978-3-030-23217-7_25.pdf
- (2) Nikoleli, G.-P., Nikolelis, D.P., **Siontorou, C.G.**, Nikolelis, M.-T., Karapetis, S. (2019). Applications of Lipid Membranes-Based Biosensors for the Rapid Detection of Food Toxicants and Environmental Pollutants. In: Kök, F.N., Yıldız, A.A., İnci, F. (eds), *Biomimetic Lipid Membranes: Fundamentals, Applications, and Commercialization*, Springer, Cham. https://link.springer.com/chapter/10.1007/978-3-030-11596-8_12
- (3) **Siontorou, C.G.**, Nikoleli, G.-P., Nikolelis, D.P., Karapetis, S., Nikoleli, M.-T. (2019). Graphene-Based Biosensors: Design, Construction, and Validation. Toward a Nanotechnological Tool for the Rapid In-Field Detection of Food Toxicants and Environmental Pollutants. In: Palys, B. (ed), *Handbook of Graphene*, vol. 6, Wiley. <https://doi.org/10.1002/9781119468455.ch91>
- (4) Nikoleli, G.-P., Nikolelis, D.P., **Siontorou, C.G.**, Karapetis, S., Varzakas, T. (2018). Novel Biosensors for the Rapid Detection of Toxicants in Foods. In: Toldrá, F. (ed), *Advances in Food and Nutrition Research*, vol. 84, Academic Press. <https://doi.org/10.1016/bs.afnr.2018.01.003>
- (5) Nikoleli, G.-P., Nikolelis, D.P., **Siontorou, C.G.**, Karapetis, S., Bratakou, S., Tzamtzis, N. (2018). Nanobiosensors Based on Graphene Electrodes: Recent Trends and Future Applications. In: Bhagyaraj, S.M., Oluwafemi, O.S., Kalarikkal, N., Thomas, S. (eds), *Applications of Nanomaterials - Advances and Key Technologies*, Micro & Nano Technology Series, Elsevier. <https://doi.org/10.1016/B978-0-08-101971-9.00007-7>
- (6) Nikoleli, G.-P., Nikolelis, D.P., **Siontorou, C.G.**, Karapetis, S., Bratakou, S., Tzamtzis, N. (2018). Biosensors Based on Microfluidic Devices Lab-On-A-

- Chip and Microfluidic Technology. In Nikolelis, D.P., Nikoleli, G.-P. (eds), *Advanced Nanomaterials -Nanotechnology and Biosensors*, Elsevier. <https://doi.org/10.1016/B978-0-12-813855-7.00013-1>
- (7) Nikoleli, G.-P., **Siontorou, C.G.**, Nikolelis, D.P., Karapetis, S., Bratakou, S. (2018). Prototype Biosensing Devices: Design and Microfabrication Based on Nanotechnological Tools for the Rapid in the Field Detection of Food Toxicants and Environmental Pollutants. In Nikolelis, D.P., Nikoleli, G.-P. (eds), *Advanced Nanomaterials - Nanotechnology and Biosensors*, Elsevier. <https://doi.org/10.1016/B978-0-12-813855-7.00001-5>
- (8) **Siontorou, C.G.**, Psychoyios, V.N., Nikoleli, G.-P., Nikolelis, D.P., Karapetis, S., Bratakou, S., Georgopoulos, K.N. (2018). Rapid Detection of Pathogens and Toxins. In: Mohan, C.O., Carvajal-Millan, E., Ravishankar, C.N., Haghi, A.K. (eds), *Food Process Engineering and Quality Assurance*, Taylor & Francis. <https://www.taylorfrancis.com/chapters/edit/10.1201/9781315232966-9>
- (9) **Siontorou, C.G.**, Nikoleli, G.-P., Nikolelis, D.P., Karapetis, S., Tzamtzis, N., Bratakou, S. (2017). Point-of-Care and Implantable Biosensors in Cancer Research and Diagnosis. In: Chandra, P., Nee, Y., Singh, S.P. (eds), *Next Generation Point-of-Care Biomedical Sensors Technologies for Cancer Diagnosis*, Springer. https://link.springer.com/chapter/10.1007/978-981-10-4726-8_5
- (10) Karapetis, S., Bratakou, S.M., Nikoleli, G.-P., **Siontorou, C.G.**, Nikolelis, D.P., Tzamtzis, N. (2017). Graphene and Carbon Nanotube Based Biosensors for Food Analysis. In: Toldrá, F., Nollet, L.M., (eds), *Advances in Food Diagnostics*, 2nd Ed., Wiley. <https://doi.org/10.1002/9781119105916.ch11>
- (11) **Siontorou, C.G.** (2015). Bilayer Lipid Membrane Constructs: A Strategic Technology Evaluation Approach. In: Tiwari, A., Patra, H.K., Turner, A.P.F. (eds), *Advanced Bioelectronic Materials*, Scrivener Publishing LLC, Wiley. <https://doi.org/10.1002/9781118998861.ch9>
- (12) Nikolelis, D.P., **Siontorou, C.G.**, Andreou, V.G. (1998). Lipid-Based Sensors for Continuous Monitoring or Rapid Screening of Environmental Pollutants in the Field. In: Nikolelis, D.P., Mascini, M., Krull, U.J. (eds), *Biosensors for Direct Monitoring of Environmental Pollutants in Field*, Kluwer Academic Publishers. https://link.springer.com/chapter/10.1007/978-94-015-8973-4_19

Άλλες δημοσιεύσεις

- (1) Sfakianaki, E., Kakouris, A., **Siontorou, C.** (2021). Critical success factors for total quality management in primary and secondary education. *International Journal of Services and Operations Management*, 40, 564-595.
- (2) Nikolelis, D.P., **Siontorou, C.G.**, Bratakou, S., Nikoleli, G.-P. (2016). Single domain antibodies in bio-sensing. *Kenkyu Journal of Nanotechnology & Nanoscience*, 2, 100113.
- (3) **Siontorou, C.G.** (2014). Aquatic modelling: An interplay between scales. *International Journal of Environmental, Ecological, Geological and Mining Engineering*, 8, 555-561.
- (4) **Siontorou, C.G.** (2014). The R&D value cycle of nano-enabled medical devices – The case of biosensors. *Chemical Engineering Transactions*, 36, 439-444.
- (5) **Siontorou C.G.**, Georgopoulos, K.N. (2014). Stimuli-responsive platforms for integrated multifunctional intelligent systems. *Chemical Engineering Transactions*, 39, 811-816.
- (6) **Siontorou, C.G.**, Batzias, F.A. (2014). Subcutaneous glucose biosensor failure – A fuzzy fault tree analysis approach. *International Journal of Design & Nature and Ecodynamics* (WIT Press, UK) 9.

- (7) **Siontorou, C.G.** (2013). Investigation of the knowledge transfer problem in whole cells biosensor design: An Interdisciplinary approach. *Academic Journal of Science*, 1, 565-578.
- (8) Papadopoulou, D., **Siontorou, C.G.**, Batzias F. (2013). Development of a knowledge base supporting pipeline route selection procedure for natural gas or oil transport. *Academic Journal of Science*, 6, 777-796.
- (9) Batzias, F.A., **Siontorou, C.G.** (2012). Thinking by analogy for technology transfer from catalysts to biosensors and vice versa – A knowledge-based approach. *Procedia Engineering*, 42, 1889-1896.
- (10) **Siontorou, C.G.**, Batzias, F.A. (2012). Managing uncertainty in environmental decision-making within ecological constraints - A model based reasoning approach. *Procedia Engineering*, 42, 1137-1149.
- (11) Batzias, F.A., **Siontorou, C.G.** (2005). Introducing chemical engineering processes into optimal design of measuring systems equipped with biosensors. *Lecture Series on Computer and Computational Sciences*, 4, 859-865.
- (12) Batzias, F.A., **Siontorou, C.G.** (2005). Odour fingerprinting/monitoring within a processing industry environment by means of distributed biosensors – The case of oil refineries. *Lecture Series on Computer and Computational Sciences*, 4, 852-858.
- (13) **Siontorou, C.G.**, Kakos, A.S., Batis, G. (2004). GIS-based computer aided air pollution biomonitoring for impact assessment - Application in the case of materials deterioration. *Lecture Series on Computer and Computational Sciences*, 1, 647-652.

Δημοσιεύσεις σε Πρακτικά Διεθνών Συνεδρίων

— Μετά από κρίση στο πλήρες κείμενο

- (1) **Siontorou CG**, Georgopoulos KN, Tyrosinase biosensor for phenol monitoring in water, *International Conference on Chemical, Agricultural and Biological Sciences* (CABS), 2015.
- (2) **Siontorou CG**, Bidikoudi M, Chandrinou C, Boukos N, Falaras P, Fardis M, Apostolopoulos G, Batzias F, Sidiras D, Spectroscopic assessment of biomass derived adsorbents for oil spill cleaning, *3rd International Conference on Recent Trends in Engineering and Technology* (ICRET), 2015.
- (3) **Siontorou CG**, Developing expert systems for in vivo monitoring pitfalls–The case of implantable glucose biosensors. *International Workshop on Bioinformatics, Medical Informatics and e-Health* (BiMi&eH), in the frame of the *Sixth International Conference on Intelligent Computing and Information Systems* (ICICIS), 2013.
- (4) **Siontorou CG**, Batzias FA, An ontological approach to multi-scale modelling of environmental fate and ecological effects in aquatic ecosystems. *WIT Transactions on Modelling and Simulation*, WIT Press Conference Proceedings of Computational methods and Experimental Measurements XVI (CMEM) (eds Carromagno GM, Brebbia CA, Hernández S), vol 55, 2013.
- (5) **Siontorou CG**, Batzias FA, Investigating implantable glucose biosensors pitfalls: a fault tree analysis approach. *WIT Transactions on Biomedicine and Health*, WIT Press Conference Proceedings of Modelling in Medicine and Biology X (BIOMED) (eds Kiss R, Brebbia CA), vol 17, 2013.
- (6) Batzias F, Sidiras D, **Siontorou C**, Stankevica K, Ontological mapping of lake sediment formation/exploitation within an environmental management framework. *Recent Advances in Fluid Mechanics and Heat & Mass Transfer, WSEAS Proceedings of the 11th International Conference on Heat Transfer, Thermal Engineering and Environment* (HTE) (eds Volkov K, Mastny P), 2013.
- (7) **Siontorou CG**, Batzias FA, Translating academic research into products - The case of biosensors. *Recent Advances in Industrial and Manufacturing Technologies, WSEAS Proceedings of the 1st International Conference on*

- Industrial and Manufacturing Technologies* (INMAT) (eds Jian M-S, Iliescu M, Dobrescu TG), 2013.
- (8) Batzias FA, Sidiras DK, **Siontorou CG**, Batzias DF, Tsapatsis M, Safarik I, An ontological approach in determining the bioaccumulation potential of marine/estuarine sediments contaminated by oil spill. *Recent Advances in Energy, Environment and Economic Development, WSEAS Proceedings of the 7th International Conference on Energy and Development, Environment and Biomedicine* (EDEB) (eds Zaharim A, Panagopoulos T, Zhang Y, Barbu C, Haret S Calbureanu Popescu MX), 2013.
- (9) **Siontorou CG**, Batzias FA, Spanidis PM, Optimizing a sensors network according to a new standardization scheme for preventing air contamination due to hydrogen leakage. *Recent Researches in Environmental and Geological Sciences, Proceedings of the 7th WSEAS International Conference on Energy & Environment* (EE) (eds Altawell N, Volkov K, Matos C, Arroyabe PF), 2012.
- (10) Batzias FA, Sidiras DK, **Siontorou CG**, Bountri AN, Politi DV, Synthesizing a multi-criteria preference matrix for decision making on adsorbent selection within an industrial ecology network. *Recent Advances in Energy, Environment and Economic Development, WSEAS Proceedings of the 3rd International Conference on Development, Energy, Environment, Economics* (DEEE) (eds Eslamian S), 2012.
- (11) Batzias FA, Sidiras DK, **Siontorou CG**, Bountri AN, Politi DV, Ontology-based creation of a framework for wastes exploitation. *Recent Advances in Energy, Environment and Economic Development, WSEAS Proceedings of the 3rd International Conference on Development, Energy, Environment, Economics* (DEEE) (ed Eslamian S), 2012.
- (12) Batzias FA, Sidiras DK, **Siontorou CG**, Bountri AN, Politi DV, Fuzzy multicriteria ranking of waste materials to be used as adsorbents within an industrial ecology framework. *Advances Environment, Computational Science and Bioscience, Proceedings of the 10th WSEAS International Conference on Environment, Ecosystems and Development* (EED) (eds Oprisan S, Zaharim A, Eslamian S, Jian M-S, Aiub CAF, Azami A), 2012.
- (13) Batzias FA, Salapa IS, **Siontorou CG**, On the tradeoff between reliability and uncertainty when combining bioreactors for wastewater treatment. *Advances Environment, Computational Science and Bioscience, Proceedings of the 10th WSEAS International Conference on Environment, Ecosystems and Development* (EED) (eds Oprisan S, Zaharim A, Eslamian S, Jian M-S, Aiub CAF, Azami A), 2012.
- (14) Batzias FA, Sidiras DK, **Siontorou CG**, Batzias DF, Tsapatsis M, Safarik I, Creating a knowledge base for supporting oil spills surveillance/monitoring. *Advances Environment, Computational Science and Bioscience, Proceedings of the 10th WSEAS International Conference on Environment, Ecosystems and Development* (EED) (eds Oprisan S, Zaharim A, Eslamian S, Jian M-S, Aiub CAF, Azami A), 2012.
- (15) **Siontorou CG**, A nature-inspired design strategy for biotechnology product development. *Recent Researches in Environment and Biomedicine, Proceedings of the WSEAS Conference on Energy and Development - Environment - Biomedicine* (eds Kambe T, Bulucea CA, Arapatsakos C), 2012.
- (16) Batzias FA, Geronti AP, **Siontorou CG**, Investigating the dependence of capital investment on the production capacity of industrial units based on recycling. *Recent Researches in Environment and Biomedicine, Proceedings of the WSEAS Conference on Energy and Development - Environment - Biomedicine* (eds Kambe T, Bulucea CA, Arapatsakos C), 2012.
- (17) Batzias FA, Zoupanidou EE, Kopsidas ON, **Siontorou CG**, Contingent Valuation Method (CVM) for the preservation/restoration of three lakes in Northern Greece. *Recent Researches in Environment and Biomedicine,*

- (18) Batzias FA, **Siontorou CG**, On the development of a knowledge base for recommended practices in biomaterials and bioproducts selection – A CBR approach. *Recent Researches in Artificial Intelligence and Database Management, Proceedings of the 11th WSEAS International Conference on Artificial Intelligence, Knowledge Engineering and Data Bases (AIKED)* (eds Rudas IJ, Zaharim A, Sopian K, Strouhal J), 2012.
- (19) Batzias FA, **Siontorou CG**, Design of an ontological interface for chemical and biotechnological knowledge acquisition by means of an intelligent agent. *Recent Researches in Artificial Intelligence and Database Management, Proceedings of the 11th WSEAS International Conference on Artificial Intelligence, Knowledge Engineering and Data Bases (AIKED)* (eds Rudas IJ, Zaharim A, Sopian K, Strouhal J), 2012.
- (20) **Siontorou CG**, Fragkos-Livanios L, Batzias FA, Employing an especially designed biocide mixture for onboard ballast water treatment. *Advances in Environment, Computational Chemistry and Bioscience, Proceedings of the 9th WSEAS International Conference on Environment, Ecosystems And Development (EED)* (eds Oprisan S, Zaharim A, Eslamian S, Jian M-S, Aiub CAF, Azami A), 2011.
- (21) Batzias FA, **Siontorou CG**, Bountri A, On the quality of waste biomass serving as a substitute for activated carbon in packed bed adsorption columns. *Recent Advances in Fluid Mechanics and Heat and Mass Transfer, Proceedings of the 9th IASME/WSEAS International Conference on Heat Transfer, Thermal Engineering and Environment (HTE)* (eds Lazard M, Buikis A, Shmaliy YS, Revetria R, Mastorakis N, Martin O, Bognar G, Sohrab SH, Riahi DN, Gillich G-R), 2011.
- (22) Batzias FA, Bountri A, **Siontorou CG**, Solving river pollution problems by means of fuzzy fault tree analysis. *Advances in Biology, Bioengineering and Environment, Proceedings of the 8th WSEAS International Conference on Environment, Ecosystems And Development (EED)* (eds Mastorakis N, Mladenov V, Demiralp M, Bojkovic Z), 2010.
- (23) **Siontorou CG**, Computer aided design of medicinal products based on interactive chemical/herbal ingredients – An R&D approach. *AIP (American Institute of Physics) Conference Proceedings for the 7th International Conference of Computational Methods in Science and Engineering (ICCMSE 2009)* 2012;1504: 1095-1098.
- (24) **Siontorou CG**, On the optimal design of molecular sensing interfaces with lipid bilayer assemblies – A knowledge based approach. *AIP (American Institute of Physics) Conference Proceedings for the 7th International Conference of Computational Methods in Science and Engineering (ICCMSE 2009)*, 2012;1504:1099-1102.
- (25) **Siontorou CG**, Karydi A, Endogenous estimation of safety coefficient for optimal design of biochemical reactors at industrial level. *AIP (American Institute of Physics) Conference Proceedings for the 7th International Conference of Computational Methods in Science and Engineering (ICCMSE 2009)*, 2012;1504:1067-1070.
- (26) Batzias DF, Giannias DA, **Siontorou CG**, Computational and experimental biomonitoring transboundary pollution for optimizing industrial effluent parameters. *AIP (American Institute of Physics) Conference Proceedings for the 6th International Conference of Computational Methods in Science and Engineering (ICCMSE 2008)*, 2009; 1148: 573-579.
- (27) **Siontorou CG**, Natural chemoreception in the service of environmental biosensing – A computer aided design framework for biomass monitoring. *AIP (American Institute of Physics) Conference Proceedings for the 6th*

- International Conference of Computational Methods in Science and Engineering* (ICCMSE 2008), 2009;1148:593-598.
- (28) Batzias FA, Efthymiadou AP, **Siontorou CG**, A knowledge based system offering consultation for enhancing semi-natural wetland functionality. *AIP (American Institute of Physics) Proceedings for the 5th International Conference of Computational Methods in Science and Engineering* (ICCMSE 2007), 2007; 963:878-883.
- (29) Batzias FA, **Siontorou CG**, Moving from spontaneous to cooperative/concurrent R&D in Biotechnology - The case of biosensors. *IEEE Conference on Emerging Technologies and Factory Automation* (ETFA), 2006.
- *Μετά από κρίση στην περίληψη*
- (1) **Siontorou CG**, Nanobodies in medical diagnostics: new tools for reviewing old concepts. European Foundation for Clinical Nanomedicine Summit, 2016 (invited speech).
 - (2) Sidiras D, Batzias F, **Siontorou C**, Bountri A, Politis D, Simulation of biomass thermochemical modification and hydrocarbons adsorption/desorption. 21st European Biomass Conference and Exhibition, 2013.
 - (3) Batzias DF, **Siontorou CG**, Sidiras DK, Building a knowledge base for enhancing traceability within a biomass to ethanol route. 20th European Biomass Conference and Exhibition, 2012.
 - (4) **Siontorou CG**, Extending the EN14214:2003 standard measurement techniques for biofuel quality to cover special analytical issues. 19th European Biomass Conference and Exhibition, 2011.
 - (5) Batzias FA, **Siontorou CG**, On the standardization of biomass/biofuels terminology and certification – a taxonomy/partonomy ontological approach. 19th European Biomass Conference and Exhibition, 2011.
 - (6) **Siontorou CG**, Evaluating environmental risk with minimum cost by using biosensors in aquatic systems – An ontological approach. 19th International Congress of Chemical and Process Engineering, 2010.
 - (7) **Siontorou CG**, Batzias FA, On the relation between electrochemical and microbial corrosion in undersea hydrocarbon storing/transporting facilities as measured by biosensors. 19th International Congress of Chemical and Process Engineering, 2010.
 - (8) Batzias D, **Siontorou CG**, Rigas C, Fault tree analysis to improve biomass/coal co-combustion in a fluidized bed system. 17th European Biomass Conference, 2009.
 - (9) Batzias D, Karvounis S, **Siontorou CG**, Multicriteria comparison between biomass and petroleum as raw materials for producing textiles. 17th European Biomass Conference, 2009.
 - (10) Batzias D, Karalekas D, **Siontorou CG**, Design of a dedicated knowledge base under the form of a network of standards methods/practices for biomass evaluation by certified laboratories. 17th European Biomass Conference, 2009.
 - (11) Batzias FA, **Siontorou CG**, Sidiras DK, Redesign of biosensing systems by creating a new chemical interface between the analyte and the detecting bioelement. 17th International Congress of Chemical and Process Engineering, 2006.
 - (12) **Siontorou CG**, Batzias FA, Standardization problems in biomarkers usage for air pollution monitoring. 7th International Conference on Emissions Monitoring (CEM), 2006.
 - (13) Batzias FA, **Siontorou CG**, Biomonitoring program for the protection of live and cut lignocellulosic biomass inventories. 14th European Biomass Conference on Biomass for Energy, Industry and Climate Protection, 2005.
 - (14) Batzias FA, **Siontorou CG**, Computer aided optimal determination of biosensors replacement program for keeping a cleaner environment in underground mine operation. 16th International Congress of Chemical &

- Process Engineering, 7th Conference on Process Integration, Modelling & Optimization for Energy Saving and Pollution Reduction (PRES) 2004.
- (15) **Siontorou CG**, Batzias FA, Computer aided fault diagnosis and corrective action when using a biosensor under extreme conditions. 16th International Congress of Chemical & Process Engineering, 2004.
- (16) Batzias FA, **Siontorou CG**, GIS-based landfill monitoring by means of dedicated biosensors. 16th International Congress of Chemical & Process Engineering, 2004.