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Σπουδές	<p>2000: Διδακτορικό δίπλωμα από το Πανεπιστήμιο Αθηνών, Τμήμα Χημείας, Εργαστήριο Αναλυτικής Χημείας. Θέμα διατριβής: Κατασκευή Βιοαισθητήρων που Στηρίζονται σε Σταθεροποιημένες Διστρωματικές Λιπιδικές Μεμβράνες (2000)</p> <p>1993: BSc (Hons) του Πανεπιστημίου Sunderland (UK) στις Βιοϊατρικές Επιστήμες (Biomedical Sciences) – Ισοτιμία Δι.Κ.Α.Τ.Σ.Α: 22/4/1994</p>
Ακαδημαϊκή Σταδιοδρομία	<p>Τμήμα Βιομηχανικής Διοίκησης & Τεχνολογίας, ΠαΠει</p> <p>Γνωστικό αντικείμενο: Σχεδιασμός Προϊόντων Χημικής Τεχνολογίας</p> <ul style="list-style-type: none">• 10/2023-σήμερα: Καθηγήτρια (ΦΕΚ 2984/Γ'/10-11-2023)• 8/2018-10/2023: Αναπληρώτρια Καθηγήτρια (ΦΕΚ879/τ.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>						
<p>Επισκόπηση Ερευνητικής Δραστηριότητας</p>	<ul style="list-style-type: none"> • 69 δημοσιεύσεις, εκ των οποίων 56 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 (05/10/2024, εξαιρουμένων των αυτο-αναφορών) <table border="1" data-bbox="676 770 1385 931"> <tr> <td>Web of Science™</td> <td>1113 ετεροαναφορές, <i>h-index</i>=23</td> </tr> <tr> <td>Scopus</td> <td>1676 ετεροαναφορές, <i>h-index</i>=24</td> </tr> <tr> <td>Google scholar</td> <td>2468 ετεροαναφορές, <i>h-index</i>=27</td> </tr> </table> • 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 Ερευνητικά 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™	1113 ετεροαναφορές, <i>h-index</i> =23	Scopus	1676 ετεροαναφορές, <i>h-index</i> =24	Google scholar	2468 ετεροαναφορές, <i>h-index</i> =27
Web of Science™	1113 ετεροαναφορές, <i>h-index</i> =23						
Scopus	1676 ετεροαναφορές, <i>h-index</i> =24						
Google scholar	2468 ετεροαναφορές, <i>h-index</i> =27						
<p>Διδακτικό Έργο</p>	<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 θέσεις</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 θέσεις</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) Kaiseroglou, N., Sfakianaki, E., **Siontorou, C.** (2024). Evaluation and total quality management: the case of primary education. *TQM Journal* <https://doi.org/10.1108/TQM-05-2024-0165>
- (2) **Siontorou, C.G.** (2023). Fair development transition of lignite areas: key challenges and sustainability prospects. *Sustainability*, 15, 12323. <https://doi.org/10.3390/su151612323>
- (3) **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>
- (4) **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>
- (5) **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>
- (6) 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>
- (7) 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>
- (8) 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>
- (9) 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>
- (10) 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>
 - (11) **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>
 - (12) 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>
 - (13) **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>
 - (14) 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>
 - (15) **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>.
 - (16) 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>
 - (17) **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>
 - (18) 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>
 - (19) **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>
 - (20) **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>
 - (21) **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>
 - (22) **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>
 - (23) 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>
- (24) 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>
- (25) **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>
- (26) 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>
- (27) **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>
- (28) **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>
- (29) 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>
- (30) **Siontorou, C.G.**, Batzias, F.A. (2008). Carbohydrate detection failure analysis via biosensing. *IEEE Transactions on Instrumentation and Measurement*, 57, 2856-2867. <https://doi.org/10.1109/TIM.2008.926051>
- (31) 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>
- (32) 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>
- (33) 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>
- (34) 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>
- (35) 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>
- (36) 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>
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