

Assoc. Prof. Christina G. Siontorou

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Education	<p>2000: PhD in Analytical Chemistry. Dpt Chemistry, National and Kapodistrian University of Athens. Thesis title: Construction of stabilized bilayer lipid membrane biosensors (2000)</p> <p>1993: BSc (Hons) Biomedical Sciences, University of Sunderland, UK (1993) – recognition received from the Hellenic National Academic Recognition Information Centre: 22/4/1994</p>
Academic Positions	<p>Faculty Appointments</p> <p>Subject: Design of Chemical Technology Products</p> <ul style="list-style-type: none">• 08/2018-current: Assoc. Professor (OGG 879/Γ'/6-8-2018)• 12/2013-08/2018: Assist. Professor on Tenure (OGG 1420/Γ'/6-12-2013)• 12/2008-11/2013: Lecturer (OGG 1140/Γ'/22-12-2008)• 10/2003-08/2007: Adjunct Lecturer (under Presidential Decree 407/80) <p>Other Appointments</p> <ul style="list-style-type: none">• Oct/2004-Jul/2006 & Oct/2009-current: Part-time tutor at the School of Social Sciences of the Hellenic Open University (distant learning). Subject: total quality management, environmental management• Oct/2003-Sep/2005: Laboratory Associate, Department of Textile Engineering, Technological Educational Institute of Piraeus. Subject: electrochemistry, chemical kinetics (lectures & lab)
Professional Experience	<ul style="list-style-type: none">• Sep/1999-Aug/2003: Pharmaceutical Enterprise Consultant, Pharmassist, Contract Research Organization Subject: regulatory affairs (national & EU), product development, pharmacovigilance, clinical trials, regarding medicinal products for human use, herbals, homeopathic drugs and food supplements, industrial cleaners, disinfectants and biocides• Sep/1998-Aug/1999: Regulatory Affairs and R&D Department, ELPEN S.A. Pharmaceutical Industry

	<p>Subject: regulatory affairs (national), product development, drug analysis, analytical development, evaluation of manufacturing processes, pharmaceutical legislation</p>						
<p>Research Overview</p>	<ul style="list-style-type: none"> • 67 publications, incl. 55 in Web of Science™ journals • 45 publications in International Conference Proceedings after peer review • 12 Chapters in books (invited) published by CRC Press, Kluwer, Springer, Wiley, Blackwell, Elsevier, Academic Press • Impact indicators (11/3/2023, self-citations excl.) <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">Web of Science™</td> <td style="text-align: center;">1067 citations, <i>h</i>-index=23</td> </tr> <tr> <td style="text-align: center;">Scopus</td> <td style="text-align: center;">1487 citations, <i>h</i>-index=24</td> </tr> <tr> <td style="text-align: center;">Google scholar</td> <td style="text-align: center;">2193 citations, <i>h</i>-index=27</td> </tr> </table> <ul style="list-style-type: none"> • 39.1% (9 papers) in the top 25% most cited documents worldwide • Member of the Editorial Board of Biosensors MDPI • Participation in 6 EU research programs • Reviewer in 13 scientific journals of Dove, Elsevier, Springer, Taylor & Francis, Wiley, on environmental management, environmental monitoring, drug design, clinical diagnostics, electrochemistry, biotechnology, toxicology • 5th prize in the 1st i-Bank Innovation and Technology Competition of National Bank of Greece (2011) 	Web of Science™	1067 citations, <i>h</i> -index=23	Scopus	1487 citations, <i>h</i> -index=24	Google scholar	2193 citations, <i>h</i> -index=27
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Google scholar	2193 citations, <i>h</i> -index=27						
<p>Teaching</p>	<p>Department of Industrial Management & Technology</p> <ul style="list-style-type: none"> • PhDs: 2 concluded • Master theses: 3 in process, 64 concluded • Undergraduate level (current) <ul style="list-style-type: none"> • Introduction to Physical Sciences (1st sem.) • Laboratory of Industrial Technology (2nd sem.) • Chemical Industries I (3rd sem.) • Chemical Industries II (4th sem.) • Research Methodology (7th sem.) • Biotechnology (8th sem.) • Postgraduate level (current) <ul style="list-style-type: none"> • Climate Change & Sustainability (1st sem.) • Environmental Standards & Certifications (2nd sem.) <p>Hellenic Open University, School of Social Sciences, Business Administration Program</p> <ul style="list-style-type: none"> • Undergraduate level (current) 						

	<ul style="list-style-type: none"> Total Quality Management and Environmental Management (4th year of study)
Administration Appointments	<p>Department of Industrial Management & Technology</p> <p><i>current</i></p> <ul style="list-style-type: none"> Member of the Internal Evaluation Team of the Department Member of the Curriculum Committee Academic Advisor for students at the 4+1 year of study <p><i>past</i></p> <ul style="list-style-type: none"> Member of the Deanery Office Deputy Director of postgraduate studies <p>University of Piraeus</p> <p><i>past</i></p> <ul style="list-style-type: none"> Member of the Quality Assurance Unit <p>Hellenic Open University, School of Social Sciences, Business Administration Program</p> <p><i>current</i></p> <ul style="list-style-type: none"> Assistant coordinator for Total Quality Management module
Research Interests & Activities	<p>Basic and applied research</p> <ul style="list-style-type: none"> Design and development of measuring devices for environmental, industrial and (bio)medical monitoring: lab analyzers, field sensors, nanosensors, dual sensors, multi-arrays, biomonitoring networks. Design of industrial and clinical biotechnology products, putting emphasis on the optimization of physicochemical parameters. Protection of environmental systems: system modeling, air pollution, wastewater management, environmental quality assessment, environmental monitoring. Knowledge management: ontology platforms, fault tree analysis, technology transfer, innovation, R&D Technology roadmapping: technology evaluation, technology trajectory, university-industry alliance <p>Research programs</p> <ul style="list-style-type: none"> THALIS –Development of novel adsorbents from biomass for managing hydrocarbons spill in aquatic environments (1/10/11- 30/09/2015) – Dept. Industrial Management & Technology. Position: member of the principle investigator team. PITHAGORAS II EU-GR (Environment) (2005-2007) – Design, development and implementation of bioindicators/biosensors – Dept. Industrial Management & Technology. Position: Principle Researcher.

- University of Coimbra, Portugal (1998) – Biosensors - European Science Foundation. Position: Visiting Researcher
- INCO-COPERNICUS Project IC15-CT96-0804 - Biosensors for direct Monitoring of Environmental Pollutants in the Field (1996-1998) –Dept. Chemistry, Athens University. Position: Researcher
- 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) – Dept. Chemistry, Athens University. Position: Researcher
- COMET – Biochemical diagnosis of thyroid diseases (1991-1992). Dept. Endocrinology, School of Medicine, Athens University. Position: research Assistant

Publications

Publications in Web of Science™ journals

- (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.**, Keramidias, 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 biosensing. *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., Piuanno, 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>

Chapters in Books

- (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., Yildiz, A.A., Inci, 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>
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