

Βασίλης Γ. Γαβαλάς

ΠΡΟΥΠΗΡΕΣΙΑ– ΕΚΠΑΙΔΕΥΣΗ

| | |
|---|---------------|
| <i>Υπεύθυνος Παραγωγής</i> , Τμήμα Παραγωγής, Medicon Ελλάς ΑΕ | 2011 – σήμερα |
| <i>Ερευνητής</i> , Τμήμα Έρευνας και Ανάπτυξης, Medicon Ελλάς ΑΕ | 2007 – 2011 |
| <i>Επίκουρος Ερευνητής Καθηγητής</i> , Τμήμα Χημείας, Πανεπιστήμιο Κεντάκι, ΗΠΑ | 2004 – 2007 |
| <i>Μεταδιδακτορικός Ερευνητής</i> , Τμήμα Χημείας, Πανεπιστήμιο Κεντάκι, ΗΠΑ | 2000 – 2004 |
| <i>Διδάκτορας Αναλυτικής Χημείας</i> , Τμήμα Χημείας, Πανεπιστήμιο Κρήτης | 1995 – 2000 |
| <i>Πτυχιούχος Χημείας</i> , Τμήμα Χημείας, Πανεπιστήμιο Κρήτης | 1991 - 1995 |

ΕΜΠΕΙΡΙΑ

- Επισκέπτης Ομιλητής στο μεταπτυχιακό μάθημα: “Entrepreneurship Principles in Life Sciences”, Τμήμα Μοριακής Βιολογίας & Γενετικής, Δημοκρίτειο Πανεπιστήμιο Θράκης Τίτλος Ομιλίας: «Διαχείριση Παραγωγής στα Πλαίσια ενός Συστήματος Ποιότητας» (2012 – 2016).
- Υπεύθυνος για τη σύνταξη και κατάθεση ερευνητικών προγραμμάτων και εκθέσεων προόδου σε Χρηματοδοτικούς Οργανισμούς Αμερικής, όπως NIEH και NSF (2005 - 2007).
- Αξιολογητής ερευνητικών δημοσιεύσεων για τα διεθνή επιστημονικά περιοδικά *Langmuir*, *Analytical and Bioanalytical Chemistry*, *Sensors and Actuators B: Chemical* (2003 - 2007).
- Καθοδήγηση επιστημονικής έρευνας περισσότερων από 15 μεταπτυχιακών και προπτυχιακών φοιτητών (1999 - 2007).
- Διδασκαλία “Αρχές Ενόργανης Ανάλυσης” τρίτους έτους προπτυχιακού μαθήματος και του αντίστοιχου εργαστηρίου, Τμήμα Χημείας, Πανεπιστήμιο Κεντάκι, ΗΠΑ (2005).
- Οργάνωση και συντονισμός του Προγράμματος Ερευνητικής Εκπαίδευσης προπτυχιακών φοιτητών “REU in Functional Materials” (2005, 2006).
- Συμμετοχή σε Εκπαιδευτική Δημερίδα “Micromachining Technologies and Applications” Georgia Institute of Technology, ΗΠΑ 28 - 31 Μαΐου 2002.
- Μέλος της Ένωσης Ελλήνων Χημικών και της Ένωσης Χημικών ΗΠΑ.

Χρηματοδοτούμενα Ερευνητικά Προγράμματα

- DMR-0453488, “REU Site. Undergraduate Research Experiences in Functional Materials” (co-PI; L. Bachas PI), National Science Foundation (DMR), \$192,000, 3/15/05-2/28/08.
- 5P42ES007380-09, “Analysis Component: Quantification of PCBs and Hydroxylated PCBs” (PI), in “Nutrition and Superfund Chemical Toxicity” (B. Henning, PI), National Institutes of Environmental Health, Superfund Program, TOTAL: \$6,670,929, THIS PROJECT: \$215,970, 4/01/05 - 3/31/08.
- 5P42ES007380-09, “Superfund Cross-Disciplinary Training Core” (co-PI; L. G. Bachas, PI), in “Nutrition and Superfund Chemical Toxicity” (B. Hennig, PI), National Institute of Environmental Health Sciences, Superfund Program, TOTAL: \$6,670,929, THIS PROJECT: \$570,226, 5/16/05 - 3/31/08.

Επιστημονικά Άρθρα

1. Improved Operational Stability of Biosensors Based on Enzyme-Polyelectrolyte Complex Adsorbed Into a Porous Carbon Electrode. V. G. Gavalas, N. A. Chaniotakis, T. D. Gibson, **Biosensors & Bioelectronics**, 13, **1998**, 1205 - 1211.
2. Polyelectrolyte Stabilized Biosensors. V. G. Gavalas, N. A. Chaniotakis, **Instrumental Methods of Analysis Conference Proceedings**, Vol. I, **1999**, 280-284.
3. [60]Fullerene-Mediated Amperometric Biosensors. V. G. Gavalas, N. A. Chaniotakis, **Analytica Chimica Acta**, 409, **2000**, 131-135.

4. Polyelectrolyte Stabilized Oxidase Based Biosensors: Effect of Diethylaminoethyl-dextran on the Stabilization of Glucose and Lactate Oxidases into Porous Conductive Carbon. V. G. Gavalas, N. A. Chaniotakis, **Analytica Chimica Acta**, 404, **2000**, 67-73.
5. Novel Pre-oxidizing Cell for Elimination of Electroactive Interferents During Biosensor Analysis. Application to Glucose Determination in Real Samples. V. G. Gavalas, M. G. Fouskaki, N. A. Chaniotakis, **Analytical Letters**, 33 (12), **2000**, 2391-2405.
6. Carbon Nanotube Based Sol-Gel Composite Electrodes. V. G. Gavalas, R. Andrews, D. Bhattacharyya, L. G. Bachas, **Nano Letters**, 1, **2001**, 719-721.
7. Lactate Biosensor Based on the Adsorption of Polyelectrolyte Stabilized Lactate Oxidase into Porous Conductive Carbon. V. G. Gavalas, N. A. Chaniotakis, **Mikrochimica Acta**, 136, **2001**, 211-215.
8. Electrochemistry of Carbon Nanotube Composite Electrodes. V. G. Gavalas, R. Andrews, D. Bhattacharyya, L. G. Bachas, **Carbon'01, An International Conference on Carbon**, **2001**, 955-959.
9. Phosphate Biosensor Based on Polyelectrolyte-Stabilized Pyruvate Oxidase. V. G. Gavalas, N. A. Chaniotakis, **Analytica Chimica Acta**, 427, **2001**, 271-277.
10. Potentiometric Behavior of Electrodes Based on Overoxidized Polypyrrole Films. A. Ersöz, V. G. Gavalas, L. G. Bachas, **Analytical Bioanalytical Chemistry**, 372, **2002**, 786-790.
11. Polyelectrolyte-Stabilized Biosensors Based on Macroporous Carbon Electrode. V. T. Dimakis, V. G. Gavalas, N. A. Chaniotakis, **Analytica Chimica Acta**, 467, **2002**, 217-223.
12. Alumina-Pepsin Hybrid Nanoparticles with Orientation Specific Enzyme Coupling. J. Li, J. Wang, V. G. Gavalas, D. A. Atwood, L. G. Bachas, **Nano Letters**, 3, **2003**, 55-58.
13. Novel Carbon Materials in Biosensor Systems. S. Sotiropoulou, V. Gavalas, V. Vamvakaki, N. A. Chaniotakis, **Biosensors & Bioelectronics**, 18, **2003**, 211-215.
14. Membranes for the Development of Biosensors. V. G. Gavalas, J. Wang, L. G. Bachas, **Membrane Science and Technology Series**, 8, **2003**, 379-392.
15. Aligned Multiwalled Carbon Nanotube Membrane. B. Hinds, N. Chopra, R. Andrews, V. Gavalas, L. Bachas, **Science**, 303, **2004**, 62-65.
16. Hybrid Nanoparticles Based on Organized Protein Immobilization on Fullerenes. P. Nednoor, M. Capaccio, V. G. Gavalas, J. Anthony, M. Meier, L. G. Bachas, **Bioconjugate Chemistry**, 15, **2004**, 12-15.
17. Aqueous-Phase Dechlorination of Toxic Chloroethylenes by Vitamin B₁₂ Cobalt Center: Conventional and Polypyrrole Film-Based Electrochemical Studies. D. K. Ahuja, V. G. Gavalas, L. G. Bachas, and D. Bhattacharyya, **Industrial and Engineering Chemistry Research**, 43, **2004**, 1049-1055.
18. Carbon Nanotube Aqueous Sol-Gel Composites: Enzyme-friendly Platforms for the Development of Stable Biosensors. V. G. Gavalas, S. A. Law, J. C. Ball, R. Andrews, and L. G. Bachas, **Analytical Biochemistry**, 329, **2004**, 247-252.
19. Protein Immobilization on Carbon Nanotubes Through a Molecular Adapter. J. S. Lenihan, V. G. Gavalas, J. Wang, R. Andrews, L. G. Bachas, **Journal of Nanoscience and Nanotechnology**, 4, **2004**, 600-604.
20. Coupling Biomolecules to Fullerenes Through a Molecular Adapter. M. Capaccio, V. G. Gavalas, J. Anthony, M. Meier, L. G. Bachas, **Bioconjugate Chemistry**, 16, **2005**, 241-244.
21. Reversible Biochemical Switching of Ionic Transport through Aligned Carbon Nanotube Membranes. P. Nednoor, N. Chopra, V. Gavalas, L. G. Bachas, B. J. Hinds, **Chemistry of Materials**, 17, **2005**, 3595-3599.
22. Enhancing the Blood Compatibility of Ion-Selective Electrodes. V. G. Gavalas, M. J. Berrocal, L.G. Bachas, **Analytical & Bioanalytical Chemistry**, 384, **2006**, 65-72.
23. Decyl Methacrylate-based Microspot Optodes. A. J. Sizemore, A. Urbas, T. Finley, V. G. Gavalas, L. G. Bachas, **Analytical Chemistry**, 78, **2006**, 524-529.
24. Poly (Amino Acid)-Mediated Electrochemical Growth of Metal Nanoparticles. K. Venkatachalam, V. G. Gavalas, S. Xu, A. C. de Leon, D. Bhattacharyya, L. G. Bachas, **Journal of Nanoscience and Nanotechnology**, 6, **2006**, 2408-2412.
25. Nitrate-Selective Electrode Based on a Cyclic Bis-thiourea Ionophore. A. S. Watts, V. G. Gavalas, A. Cammers, P. Sánchez Andrada, M. Alajarín, L. G. Bachas, **Sensors & Actuators B**, 121, **2007**, 200-207.

26. Microfabrication of Screen-Printed Nanoliter Vials with Embedded Surface-Modified Electrodes. J. S. Lenihan, J. C. Ball, V. G. Gavalas, J. K. Lumpp, J. Hines, S. Daunert, L. G. Bachas, **Analytical & Bioanalytical Chemistry**, 387, 2007, 259-265.
27. Carbon Nanotube Based Biomimetic Membranes: Mimicking Protein Channels Regulated by Phosphorylation. P. Nednoor, V. Gavalas, M. Majumder, N. Chopra, L. G. Bachas, B. J. Hinds, **Journal of Materials Chemistry**, 17, 2007, 1755-1757.
28. Functional one-dimensional nanomaterials: Applications in nanoscale biosensors. N. Chopra, V. G. Gavalas, B. J. Hinds, L. G. Bachas, **Analytical Letters**, 40, 2007, 2067-2096.
29. Centrifugal Microfluidics with Integrated Sensing Microdome Optodes for Multi-Ion Detection. A. S. Watts, A. A. Urbas, E. A. Moschou, V. G. Gavalas, M. Madou, L. G. Bachas, **Analytical Chemistry**, 79, 2007, 8046-8054.
30. Alumina Nanoparticles Induce Expression of Endothelial Cell Adhesion Molecules. E. Oesterling, N. Chopra, V. Gavalas, X. Arzuaga, E. Jin Lim, R. Sultana, D. A. Butterfield, L. Bachas, B. Hennig, **Toxicology Letters**, 178, 2008, 160-166.
31. Oral Administration of PCBs Induces Proinflammatory and Prometastatic Responses. S. Sipka, S.-Y. Eum, K. W. Son, S. Xu, V. Gavalas, B. Hennig, M. Toborek, **Environmental Toxicology and Pharmacology**, 25, 2008, 251-259.
32. Microfluidic Ion-Sensing Devices. R. D. Johnson, V.G. Gavalas, S. Daunert, L. G. Bachas, **Analytica Chimica Acta**, 613, 2008, 20-30.
33. Reductive dechlorination of 3,3',4,4'-tetrachlorobiphenyl (PCB77) using palladium or palladium/iron nanoparticles and assessment of the reduction in toxic potency in vascular endothelial cells, K. Venkatachalam, X. Arzuaga, N. Chopra, V. G. Gavalas, J. Xu, D. Bhattacharyya, B. Hennig, L. G. Bachas, **Journal of Hazardous Materials**, 159, 2008, 483-491.
34. Can Temperature Be Used To Tune the Selectivity of Membrane Ion-Selective Electrodes? E. M. Zahran, V. Gavalas, M. Valiente, L. G. Bachas, **Analytical Chemistry**, 82, 2010, 3622-3628.
35. The role of plasma treatment on electrochemical capacitance of undoped and nitrogen doped carbon nanotubes. W. Shi , K. Venkatachalam, V. Gavalas, D. Qian, R. Andrews, L. G. Bachas, N. Chopra, **Nanomaterials and Energy**, 2, 2013, 71-81.
36. Polymeric plasticizer extends the lifetime of PVC-membrane ion-selective electrodes. E.M. Zahran, A. New, V. Gavalas, L.G. Bachas, **Analyst**, 139, 2014, 757-763.

ΠΡΟΣΩΠΙΚΑ ΣΤΟΙΧΕΙΑ

Ημερομηνία Γέννησης: 29/7/1973

E-mail: gavalas@mediconsa.com