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RESEARCH ACTIVITY-RESEARCH INTERESTS

-Development of analytical methods for the voltammetric determination of metals using mercury, carbon and mercury/bismuth thin film electrodes, novel electrode surfaces based on chemical modification with nanomaterials

-Development and application of electroanalytical methods in the determination of biological, environmental and food samples. As well as in the detection of nucleic acids and proteins and application in the analysis of genotoxic compounds and pharmacologically and biologically active compounds.

-Development of enzymic and electrochemical DNA biosensors at carbon and mercury electrodes in the study; of the interactions between drugs-DNA, in the detection of methylation in the recognition of micromolar compounds, synthetic oligonucleotide sequences which comprise nucleobase analogues and proteins, in the development of methods of epigenetic control. Moreover, the development of electrochemical biosensors using nanomaterials and screen printing technology.

-Development and application of electroanalytical methods and electrochemical biosensors in the study of compounds of biological concern

LIST OF SCIENTIFIC PUBLICATIONS IN SCIENTIFIC JOURNALS

Δ1) Voltammetric determination of tetrathiomolybdates, an effective antidote in acute intoxication by copper (II) and other toxic metal ions

Giroussi S., Voulgaropoulos A*, Ayiannidis A.,

Anal. Chim. Acta 282: 139-144 (1993)

[http://dx.doi.org/10.1016/0003-2670\(93\)80362](http://dx.doi.org/10.1016/0003-2670(93)80362)

Δ2) Atomic Absorption Spectroscopic Determination of Molybdenum in Tetrathiomolybdate Aqueous Solutions

Voulgaropoulos A*, Ayiannidis A., Stratis J., Zachariadis G., Giroussi S.,

Fresenius J. Anal. Chem 351: 139-140 (1995)

<http://dx.doi.org/10.1007/BF00324304>

Δ3) Determination of Cobalt in Vegetable Animal Foodstuffs by Differential Pulse Adsorptive Voltammetry using α -Benzil Dioxime

Giroussi S., Voulgaropoulos A*, Ayiannidis A., Golimowski J., Janicki M.,

Science of Total Environment 176: 135-139 (1995)

[http://dx.doi.org/10.1016/0048-9697\(95\)04840](http://dx.doi.org/10.1016/0048-9697(95)04840)

MEDITERRANEAN JOURNAL OF CHEMISTRY

Δ4) Simultaneous Determination of Tetrathiomolybdates and Molybdates in Spiked Blood Plasma by Differential Pulse Voltammetry and their speciation

Giroussi S., Voulgaropoulos A.*, Ayiannidis A.,
Fresenius J. Anal. Chem. 356: 452-455 (1996)
10.1007/s0021663560452

Δ5) Voltammetric determination of heavy metals in Aluminum Sulfate used for waste water treatment

S. T. Giroussi, A. N. Voulgaropoulos*, S. Stavroulias
Chemia Analityczna 41: 489-493 (1996)

Δ6) Characterization of chemically modified peat and coke residues, as ionexchangers

A. Voulgaropoulos, G. Vasilikiotis*, M. Sofoniou, M. Paneli and S. Giroussi.
Chimica Chronica (New series) 25 (4): 171-178 (1996)

Δ7) Aspects of protein bound copper in sheep plasma and its release in vitro especially after treatment with ammonium tetrathiomolybdate

A. Ayiannidis*, S. Giroussi and A. Voulgaropoulos
J. Trace Elements Med. Biol. 10, 245-250 (1996)
[http://dx.doi.org/10.1016/S0946-672X\(96\)80042-3](http://dx.doi.org/10.1016/S0946-672X(96)80042-3)

Δ8) Προσδιορισμός των διαφόρων χημικών μορφών των στοιχείων (speciation) σε βιολογικά δείγματα

Σ.Θ.Γηρούση*, Α.Ν.Βουλγαρόπουλος
Χημικά Χρονικά (Γενική Έκδοση) 11: 616-617 (1996)

Δ9) Simultaneous voltammetric determination of molybdenum and copper in biological samples

Giroussi S., Voulgaropoulos A*, Ayiannidis A.,
Fresenius J. Anal. Chem. 357: 429-432, (1997)
10.1007/s002160050183

Δ10) Fluorometric determination of formaldehyde

S. T. Giroussi, E. E. Golia, A. N. Voulgaropoulos* and A.J. Maroulis
Fresenius J. Anal. Chem. 358: 667-668 (1997)
10.1007/s002160050488

Δ11) Speciation analysis of organotin compounds in Thermaikos Gulf By Capillary GC-MIP-AED

S. Giroussi, E. Rosenberg, A. Voulgaropoulos* and M. Grasserbauer
Fresenius J. Anal. Chem. 358: 828-832 (1997)
10.1007/s002160050517

Δ12) Simultaneous determination of Ni, Co, Cd, Pb, Cu by Adsorptive Voltammetry using 1-phenylpropan-1-pentylsulfonylhydrazon-2-oxim as a complexing agent

E. N. Iliadou, S. T. Giroussi, U. Dietze, M. Otto, A. N. Voulgaropoulos*, C. Papadopoulos
Analyst 122, 597-600 (1997)
DOI: 10.1039/A608021I

Δ13) Voltammetric determination of vitamin B₁₂ (as cobalt) after UV digestion

Stella Th. Giroussi*, A. N. Voulgaropoulos and J. Golimowski
Chemia Analityczna 42, 589 (1997).

Δ14) Voltammetric determination of heavy metals in natural waters and biological samples by using a chemically modified carbon paste electrode

E. N. Iliadou, S. T. Giroussi, A. N. Voulgaropoulos*, K. Vytras

Δ15) Pulsed electrochemical detection of hydrogen peroxide on gold

M. Gerlache, S. Girousi, G. Quarin, and J-M Kauffmann*

Electrochimica Acta 43, 3467-3473 (1998)

DOI: 10.1016/S0013-4686(98)00093-0

Δ16) Voltammetric determination of vanadium by using 1,10-phenanthroline as a complexing agent

S.Girousi*, I. Gherghi, A. Voulgaropoulos, I. Stratis

International Journal of Environmental Analytical Chemistry, 75, 83-91 (1999)

10.1080/03067319908047302

Δ17) Determination of Cd, Co, Cr, Cu, Fe, Ni and Pb in milk, cheese and chocolate

I. Karadjova*, S.Girousi, E.Iliadou, I.Stratis

Microchimica Acta 134, 185-191 (2000)

10.1007/s006040050065

Δ18) Simultaneous voltammetric determination of molybdenum and copper in manganese compounds

S.Girousi*, G.Kaspentakis, A.Voulgaropoulos, J.Stratis

Microchimica Acta 136, 223-226 (2001)

10.1007/s006040170058

Δ19) Mitochondria-based amperometric biosensor for the determination of L-glutamic acid

S.T. Girousi*, A. A. Pantazaki, A.N.Voulgaropoulos

Electroanalysis 13, 243-245 (2001)

DOI: 10.1002/1521-4109(200103)

Δ20) Mitochondria-based amperometric biosensor for the determination of L-succinic acid

S.T. Girousi*, A. A. Pantazaki, A.N.Voulgaropoulos

Analytical letters 34, 1079-1086 (2001)

<http://dx.doi.org/10.1081/AL-100104954>

Δ21) Electrochemical biosensors; A promising tool in chemical analysis

S.Girousi*

Sci. Pap. Univ. Pardubice 8, 5-17 (2002)

Δ22) Electrochemical DNA biosensors applicable to the study of interactions between DNA and DNA intercalators

I.Ch.Gherghi, S.Th. Girousi*, A.A. Pantazaki, A. N. Voulgaropoulos, R.Tzimou-Tsitouridou

International Journal of Environmental Analytical Chemistry 83, 693-700 (2003)

<http://dx.doi.org/10.1080/0306731021000008586>

Δ23) Study of Interactions between Actinomycin D and DNA on carbon paste electrode (CPE) and on the hanging mercury drop (HMDE) surface

I.Ch.Gherghi, S.Th. Girousi*, A. N. Voulgaropoulos, R.Tzimou-Tsitouridou

Journal of Pharmaceutical and Biomedical Analysis 31, 1065-1078 (2003)

DOI: 10.1016/S0731-7085(02)00645-3

Δ24) Study of interactions between DNA-ethidium bromide (EB) and DNA-acridine orange (AO), in solution, using Hanging mercury drop electrode (HMDE)

I.Ch.Gherghi, S.Th. Girousi*, A. N. Voulgaropoulos, R.Tzimou-Tsitouridou

Talanta 61, 103-112 (2003)

doi:10.1016/S0039-9140(03)00238-8

Δ25) Interaction of the mutagen ethidium bromide (EB) with DNA, using a carbon paste electrode (CPE) and a Hanging mercury drop electrode (HMDE)

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I.Ch.Gherghi, S.Th. Girousi*, A. N. Voulgaropoulos, R.Tzimou-Tsitouridou
Analytica chimica Acta 505, 135-144 (2004)
doi:10.1016/S0003-2670(03)00352-0

Δ26) Adsorptive transfer stripping voltammetry applied to the study of the interaction between DNA and actinomycin D

I.Ch.Gherghi, S.T. Girousi*, A. N. Voulgaropoulos, R.Tzimou-Tsitouridou
International Journal of Environmental Analytical Chemistry 84, 865-874 (2004)
<http://dx.doi.org/10.1080/03067310310001626722>

Δ27) DNA modified carbon paste electrode applied to the voltammetric study of the interaction between DNA and acridine orange

I.Ch.Gherghi, S.T. Girousi*, A. N. Voulgaropoulos, R.Tzimou-Tsitouridou
Chemia Analityczna 49, 467 (2004).

Δ28) Differentiations in the electrochemical behavior of the interactions between DNA and compounds with affinity for DNA

I.Ch.Gherghi, S.Th.Girousi, A.N.Voulgaropoulos*, R.Tzimou-Tsitouridou
Anal. Letters, 37, 957 – 966 (2004)
<http://dx.doi.org/10.1081/AL-120030290>

Δ29) DNA-modified carbon paste electrode applied to the study of interaction between Rifampicin (RIF) and DNA in solution and at the electrode surface

S.Th. Girousi*, I.Ch. Gherghi, M.K. Karava
Journal of Pharmaceutical and Biomedical Analysis 36, 851–858 (2004)
doi:10.1016/j.jpba.2004.08.034

Δ30) Electrochemical detection of enzyme labeled DNA based on disposable pencil graphite electrode

Pinar Kara, Arzum Erdem, Stella Girousi and Mehmet Ozsoz*
Journal of Pharmaceutical and Biomedical Analysis 38, 191-195 (2005)
doi:10.1016/j.jpba.2004.12.011

Δ31) Voltammetric study of interaction between polymers (PEI and TMO) and pDNA on a Hanging mercury drop electrode

I.Ch.Gherghi, S.Th. Girousi*, M.Thanou, A. N. Voulgaropoulos and R. Tzimou-Tsitouridou
Journal of Pharmaceutical and Biomedical Analysis 39, 177–180 (2005)
doi:10.1016/j.jpba.2005.02.043

Δ32) Allele-specific genotyping by using guanine and gold electrochemical oxidation signals

Mehmet Ozsoz*T, Arzum Erdem, Dilsat Ozkan, Pinar Kara, Hakan Karadeniz,
Burcu Meric, Kagan Kerman, Stella Girousi
Bioelectrochemistry 67, 199– 203 (2005)
doi:10.1016/j.bioelechem.2004.06.009

Δ33) Optimization of DNA accumulation onto carbon paste electrodes when applied in a study of its interaction with cis-platin.

P.Kotzian, I.Ch. Gherghi, S.T.Girousi, K. Vytras*
Sensing in Electroanalysis, 109-118, Pardubice (2005)

Δ34) DNA biosensor based on carbon paste electrodes modified by polymer multilayer
Ioannou AK, Pantazaki AA, Girousi STH, Millot MC, Vidal-Madjar C, Voulgaropoulos AN*
Electroanalysis 18, 456-464 (2006)

DOI: 10.1002/elan.200503421

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Δ35) Synthesis and pharmacochemical study of new Cu(II) complexes with thiophen-2-yl saturated and α , β unsaturated substituted carboxylic acids
D. Panagoulis, E. Pontiki, E. Skeva, C. Raptopoulou, S. Girousi, D. Hadjipavlou-Litina[□]*, C. Dendrinou-Samara[□]

Journal of Inorganic Biochemistry, 101(4), 623-634 (2007)
doi:10.1016/j.jinorgbio.2006.12.004

Δ36) Sensitive detection of cyclophosphamide using DNA-modified carbon paste, pencil graphite and hanging mercury drop electrodes

P. Palaska, E. Arizoglou, S. Girousi*
Talanta, 72(3), 1199-1206 (2007)
doi:10.1016/j.talanta.2007.01.013

Δ37) An electroanalytical study of the drug proflavine

Stella Th. Girousi*, Despina K. Alexiadou, Andrea K. Ioannou
Microchim Acta (2008) 160: 435–439
10.1007/s00604-007-0812-1

Δ38) Sensitive Detection of Tetracycline, Oxytetracycline and Chlortetracycline in the Presence of Copper(II) Ions Using DNA-Modified Carbon Paste Electrode

A.G. Angelikaki and S.T. Girousi*
Chem. Anal. (Warsaw), (2008) *Chemia Analityczna* 53 (3), pp. 445-454

Δ39) Electrochemical Study of the Interaction Mechanism of Proflavine (PF) with DNA Using Carbon Paste (CPE) and Hanging Mercury Drop (HMDE) Electrode

Despina K. Alexiadou, Andrea K. Ioannou, Sofia Kouidou-Andreou, Anastasios N. Voulgaropoulos, Stella Th. Girousi*
Analytical Letters 41 (10), pp. 1742-1750 (2008)
<http://dx.doi.org/10.1080/00032710802162335>

Δ40) Electroanalytical Study of the Antioxidant and Antitumor Agent Curcumin

Z. Stanic, A. Voulgaropoulos, S. Girousi*
Electroanalysis 20 (11), pp. 1263-1266 (2008)

DOI: 10.1002/elan.200804177

Δ41) [Electrochemical study of the interaction between dsDNA and copper\(I\) using carbon paste and hanging mercury drop electrode](#)

Z. Stanić, S. Girousi*
Talanta, Volume 76 (1), 2008, 116-121, 2008
doi:10.1016/j.talanta.2008.02.017

Δ42) Electrochemical study of the interaction between dsDNA and copper(II), using carbon paste and hanging mercury drop electrode

Z. Stanić, S. Girousi*
Microchimica Acta, 164, 479-485, 2009
10.1007/s00604-008-0083-5

Δ43) Electroanalytical study of proflavine intercalation in 5-methyl- or inosine- containing amplicons

Despina K. Alexiadou, Andrea K. Ioannou,
Sofia Kouidou – Andreou, Anastasios N. Voulgaropoulos, Stella Th. Girousi*
Analytical and Bioanalytical Chemistry 392 (3), pp. 533-539, 2008
DOI: 10.1007/s00216-008-2285-4

Δ44) Use of Adsorptive Transfer Stripping Voltammetry for analysing variations of

cytosine methylation in DNA

Andrea Ioannou, Despina Alexiadou, Sofia Kouidou, Stella Girousi, Anastasios Voulgaropoulos*

Electroanalysis, 21 (2009) 2685-2692

DOI: 10.1002/elan.200900274

Δ45) Electroanalytical study of the interaction between double stranded DNA and antitumor agent curcumin

C. Serpi, Z. Stanić, S. Girousi*

Analytical Letters, 43: 1491–1506, 2010

DOI: 10.1080/00032710903502199

Δ46) Electroanalytical study of SYBR Green I and Ethidium Bromide intercalation in methylated and unmethylated amplicons

Andrea K. Ioannou, Despina K. Alexiadou, Sofia A. Kouidou, Anastasios N. Voulgaropoulos, and Stella Th. Girousi*

Analytica chimica acta 657 (2010) 163-168

doi:10.1016/j.aca.2009.10.047

Δ47) Recent advances of sensitive electroanalytical tools and probes in DNA structure

S. Girousi*, C. Serpi, S. Karastogianni, A. Ioannou

Current organic chemistry, 2010, 14, 2300-2309

DOI: 10.2174/138527210793351526

Δ48) Electroanalytical study of the interaction between dsDNA and curcumin in the presence of copper(II), C. Serpi, Z. Stanić, S. Girousi*

Talanta 81 (2010) 1731–1734.

doi:10.1016/j.talanta.2010.03.031

Δ49) Detection of short oligonucleotide sequences using an electrochemical DNA hybridization biosensor

Girousi, S*, Kinigopoulou, V.

Central European Journal of Chemistry, 8 (4), (2010) pp. 732-736.

DOI: 10.2478/s11532-010-0056-5

Δ50) Square wave anodic stripping voltammetry determination of eco-toxic metals in samples of biological and environmental importance

Anastasiadou, Z.D., Jannakoudakis, P.D., Girousi, S.T*.

(2010) *Central European Journal of Chemistry*, 8 (5), (2010) pp. 999-1008.

<http://dx.doi.org/10.1080/00032711003790023>

Δ51) The Last Decade of Carbon Paste Electrodes in DNA Electrochemistry

S. Girousi and Z. Stanić,*

Current Analytical Chemistry, 7(1), 80-100, January 2011

DOI: 10.2174/157341111793797608

Δ52) [Electrochemical characterization and analytical application of arsenopyrite mineral in non-aqueous solutions by voltammetry and potentiometry](#) Original Research Article

Polyhedron, 30,(5) 702-707, 2011

Zorka Stanić, Tijana Dimić, Zoran Simić, Ljiljana Jakšić, Stella Girousi

doi:10.1016/j.poly.2010.12.009

Δ53) Innovative Configurations of Electrochemical DNA Biosensors
(A Review)

Stella Girousi*, Sofia Karastogianni, and Constantina Serpi

Sensing in Electroanalysis 6, 65-87, 2011

Δ54) Carbon Paste Electrodes in Potentiometry: The State of the Art
and Applications in Modern Electroanalysis (A Review)

Zorka Stanić^{1*} and Stella Girousi²

Sensing in Electroanalysis, 6, 89-128, 2011

Δ55) [Square-wave anodic stripping voltammetry \(swasv\) for the determination of ecotoxic metals, using a bismuth-film electrode](#)
[Anastasiadou Z.D.](#), [Sipaki I.](#), [Jannakoudakis P.D.](#), [Girousi S.T.](#)

Analytical Letters, 44 (5) , pp. 761-777, 2011

DOI:10.1080/00032711003790023

Δ56)

[“A study of the antioxidative behavior of phenolic acids, in aqueous herb extracts, using a ds DNA biosensor”.](#)

E. Skeva, S. Girousi*

Cent. Eur. J. Chem., 10, 1280-9, 2012.

DOI: 10.2478/s11532-012-0051-0

Δ57) Electrochemical (voltammetric) techniques as promising analytical tools in the study of dna electrochemistry

Stella Girousi*, Sophia Karastogianni, and Constantina Serpi

Sensing in Electroanalysis, vol.7, 2012, 107-140

Δ58) Synthesis, characterization, DNA binding properties and antioxidant activity of a manganese(II) complex with NO6 chromophore

Sophia Karastogianni, Catherine Dendrinou-Samara*, Eleutheria Ioannou, Catherine P. Raptopoulou, Demetra Hadjipavlou-Litina and Stella Girousi**

Journal of Inorganic Biochemistry, 118 (2013) 48-58

<http://dx.doi.org/10.1016/j.jinorgbio.2012.09.015>

Δ59) Electrochemical study of dsDNA on carbon nanotubes paste electrodes applying cyclic and differential pulse voltammetry

Central European Journal of Chemistry 11 (3) 2013, 413-423

Constantina Serpi, Anastasios Voulgaropoulos, Stella Girousi*

DOI :10.2478/s11532-012-0180-5

Δ60) [Adsorptive transfer voltammetry applied to the study of chromium-induced DNA damage in the presence of curcumin](#)

C. Serpi, Z. Stanic, S. Girousi*

[International Journal of Environmental Analytical Chemistry](#) 93 (5) ,2013, 543-552

<http://dx.doi.org/10.1080/03067319.2012.656098>

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Δ61) Use of mercury film glassy carbon electrode modified with multi walled carbon nanotubes in electrochemical analysis of DNA

*Constantina Serpi, Anastasios Voulgaropoulos, Stella Girousi**

[Electroanalysis](#) 25 (5) , 2013, 1256-1262

DOI: 10.1002/elan.201200610

Δ62)[Use of Cationic Surfactants Film Carbon Paste Electrodes Modified with Multiwalled Carbon Nanotubes in Electrochemical Analysis of dsDNA](#)

*C. Serpi, A. Voulgaropoulos, Stella Girousi**

[Electroanalysis](#) 25 (11) , 2013, 2493-2499

DOI: 10.1002/elan.201300339

Δ63) Electrochemical behavior of triethanolamine at a carbon paste electrode

*S. Karastogianni, S. Girousi**

Sensing in *Electroanalysis*, vol.8, 2013

Δ64)Electroanalytical quantification of total dsDNA extracted from humansample using, an ionic liquid modified, carbon nanotubespaste electrode

*C. Serpi, L. Kovatsi, S. Girousi**

Analytica Chimica Acta (2014), pp. 26-32

DOI information: 10.1016/j.aca.2013.12.031

Δ65) Detection of short oligonucleotide sequences of hepatitis B virus using electrochemical DNA hybridisation biosensor

*Sophia Karastogianni, Stella Girousi**

Chemical papers 69 (2015) 202.

DOI: 10.2478/s11696-014-0599-6

Δ66)Electrochemical behavior and voltammetric determination of a manganese(II) complex at a carbon paste electrode,

S.Karastogianni, S. Girousi, Analytical chemistry insights 11 (2016) 1.

Δ67) Electrochemical Biosensors; A Promising Tool in Pharmaceutical Analysis (Editorial)

ST Girousi*

Pharmaceutical Analytical Chemistry, Open Access , 2016, 2:1

<http://dx.doi.org/10.4172/2471-2698.1000e104>

Δ68) Development of an electrochemical DNA biosensor for the detection of vitamin B12 (cyanocobalamin) at a carbon paste modified electrode with a manganese(II) complex.

G.Dimitropoulou, S.Karastogianni, S. Girousi

J.Appl. Bioanal. vol.3 no.4, 2017

1017.145/ jab 17.011

Δ69) Application of promising carbonaceous materials in electrochemical DNA sensing

S.Karastogianni, E. Deliyanni, S. Girousi

J.Appl. Bioanal, vol.3 no.4, 2017

1017.145/ jab 17.014

Δ70) A novel electrochemical bioimprinted sensor of butyl paraben on a modified carbon paste electrode with safranin-o capped to silver nanoparticles
S.Karastogianni, S. Girousi

Int.J Curr res.vol 9,iss 11, pp. 61118-61124, 2017

Δ71) Electrogenerated molecularly imprinted polymers in electrochemical sensing
S.karastogianni, S. Girousi

Int.J Curr res. vol 9,iss 12, pp. 62348-62354, 2017

Δ72) Karastogianni, S.; Girousi, S. Electrochemical (Bio)Sensing of Maple Syrup Urine Disease Biomarkers Pointing to Early Diagnosis: A Review. *Appl. Sci.* **2020**, *10*, 7023.
doi: [10.3390/app10207023](https://doi.org/10.3390/app10207023)

Δ 73) Electrochemical (bio)sensing of amyloid beta peptide (Aβ) using metallic nanoparticles
S. Karastogianni, S, Girousi
Biomedical, J.Sci &Tech res, 25123-25132, 2020

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Δ74) An Electrochemical Sensor Based on Reduced Graphene Oxide, Gold Nanoparticles and Molecular Imprinted Over-oxidized Polypyrrole for Amoxicillin Determination

[Essousi, H.](#), [Barhoumi, H.](#), [Karastogianni, S.](#), [Girousi, S.T.](#)

Electroanalysis this link is disabled, 2020, 32(7), pp. 1546–1558

Δ75) Selective Voltammetric Detection of Ascorbic Acid from Rosa Canina on a Modified Graphene Oxide Paste Electrode by a Manganese(II) Complex.

Karastogianni, S.; Diamantidou, D.; Girousi, S.

Biosensors **2021**, *11*, 294.

doi: [10.3390/bios11090294](https://doi.org/10.3390/bios11090294)

Δ76) Square Wave Voltammetric (SWV) Determination of Cyanocobalamin (Vitamin B12) in Pharmaceuticals and Supplements on a Carbon Paste Electrode (CPE) Modified by a Manganese(II) Polymeric Film

[Karastogianni, S.](#), [Girousi, S.](#)

Analytical Letters, 2022, 55(3), pp. 399–41

Δ77) Development of an Electrochemical Sensor Using a Modified Carbon Paste Electrode with Silver Nanoparticles Capped with Saffron for Monitoring Mephedrone

[Papaioannou, G.C.](#), [Karastogianni, S.](#), [Girousi, S.](#)

Sensors, 2022, 22(4), 1625

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Δ 78) Electrochemical sensing of the maple syrup urine disease biomarker valine, using saffron-silver nanoparticles

Karastogianni, S., Paraschi, I., Girousi, S.

Biosensors and Bioelectronics: X, 2022, 12, 100275

Δ79) Promising Electrode Surfaces, Modified with Nanoparticles, in the Sensitive and Selective Electroanalytical Determination of Antibiotics: A Review

Sarakatsanou, C., Karastogianni, S., Girousi, S.

Applied Sciences (Switzerland), 2023, 13(9), 5391

Δ80) Different aspects of the voltametric detection of vitamins: A Review

Biosensors 2023, 13(6), 651; <https://doi.org/10.3390/bios13060651>

Δ81) Preparation of a glassy carbon electrode modified with saffron conjugated silver nanoparticles for the sensitive and selective electroanalytical determination of amoxicillin in urine samples

Christina Sarakatsanou, Sophia Karastogianni and Stella Girousi

Anal Methods RSC. 2023 Sep 14;15(35):4572-4581. doi: 10.1039/d3ay01331f.

CHAPTERS IN BOOKS

1) *Bismuth-Modified Carbon Fibre Electrodes-Study of their Electrochemical Behavior by Cyclic Voltammetry and Electrochemical Impedance Spectroscopy*

S.T.Girousi,^{1*} Z.D. Anastasiadou² and P.D.Jannakoudakis²

In *Bismuth: Characteristics, Production and applications*

Editors: Kamakhya Prasad Ghatak (University of Calcutta, Kolkata, India) Sitangshu Bhattacharya (Indian Institute of Science, Bangalore, India)

, 2011 *Nova Science Publishers, Inc*

2) *Electrochemical investigation of some biological important compounds correlated to curcumin*

Zorka Stanić and Stella Girousi
pp. 39-80

In *Curcumin: Biosynthesis, Medicinal Uses and Health Benefits*

Editors: Jun Sasaki and Masaki Kichida

2012, *Nova Science Publishers, Inc*

3) *Bioanalytical applications of oligonucleotides;*

Electrochemical biosensors, based on oligonucleotides hybridization detection, as promising bioanalytical tools.

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S. Girousi*, C. Serpi, S. Karastogianni

In Oligonucleotides: Synthesis, Uses in Biotechnology and Medicine

Advances in Medicine and Biology. Volume 59

Editors: Leon V. Berhardt, 2013, Nova Science Publishers, Inc

4) Gallic Acid; *Applications, analysis and electrochemical characterisation*
E Skeva, S.Girousi*

In Gallic Acid: Natural Occurrences, Antioxidant Properties and Health Implications , 2013

Editors: Michelle A. Thompson and Parker B. Collins

5) Voltammetry: A Promising Analytical Technique in the Study of Compounds of Biological
Importance

S. Girousi, C. Serpi, S. Karastogianni

In [Voltammetry: Theory, Types and Applications](#)

Authors / Editors: Yuki Saito and Takumi Kikuchi , 2013, Nova Science Publishers, Inc

6) Applications of Sensitive Electrode Surfaces; Determination of Different Classes of
Antibiotics

Girousi, S., Sarakatsanou, C.
Nanosensors, 2023, pp. 1–22

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