

НИКОЛА ТЕСЛА”

ДР СЛАВКО БОЖИЛОВИЋ

РАДИТЕЉСКИ МЕНАЏМЕНТ

н за грађевинарство
ан за архитектуру

РЕДУЗЕТНИЧКИ БИЗНИС
НТ НЕКРЕТНИНА

КОЛОГИЈУ И ЗАШТИТУ
НЕ СРЕДИНЕ

ЋУНАРОДНУ ПОЛИТИКУ
ЗБЕДНОСТ

НОМИЈУ И ФИНАНСИЈЕ

ЗА ИНФОРМАТИКУ
НУНАРСТВО

UNIVERSITY "UNION - NIKOLA TESLA"



Nikola Tesla

THE FIRST INTERNATIONAL CONFERENCE ON SUSTAINABLE ENVIRONMENT AND TECHNOLOGIES



INTERNATIONAL CONFERENCE ON SUSTAINABLE ENVIRONMENT AND TECHNOLOGIES

24-25 SEPTEMBER 2021
CARA DUŠANA 62-64, BELGRADE, FLOOR 6

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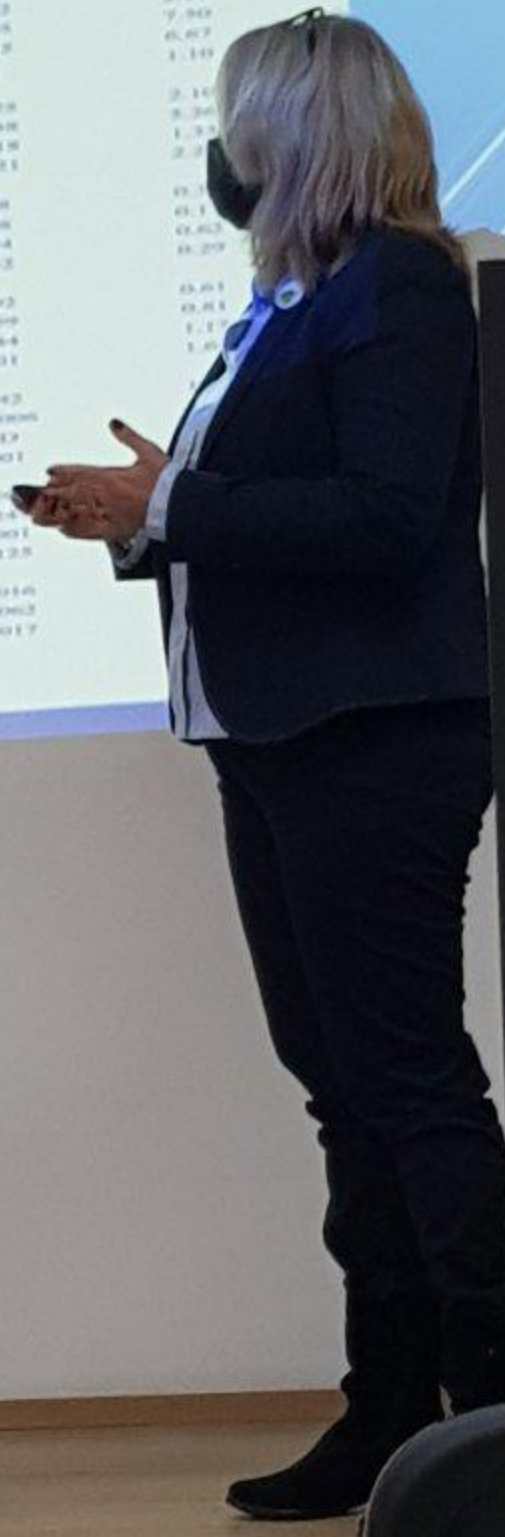
ZABRANJEN ULAZ
BEZ MASKE

PAŽNJA!



Environ Monit Assess

Location, vegetable	Found (µg g ⁻¹)	RSD, (%)	Method	Location, vegetable	Found (µg g ⁻¹)	RSD, (%)
Ca						
Brussels	0.0000	6.13		Brussels	0.0100	4.87
1. Radish	0.0070	1.40		1. Radish	0.0060	8.20
2. Choucroute	0.0005	6.87		2. Choucroute	0.0073	1.30
3. Courgette	0.0015	6.00		3. Courgette	0.001	7.60
4. Spinnach				4. Spinnach		
Fe						
Brussels	0.0000	8.30		Brussels	0.0100	8.00
1. Radish	0.0000	4.00		1. Radish	0.0005	6.33
2. Choucroute	0.0000	4.87		2. Choucroute	0.0005	6.25
3. Courgette	0.0001	4.25		3. Courgette	0.0005	4.40
4. Spinnach				4. Spinnach	0.0005	
Mg						
Brussels	0.0000			Brussels	0.0112	3.17
1. Radish	0.0000			1. Radish	0.0005	7.80
2. Choucroute	0.0000			2. Choucroute	0.0012	6.67
3. Courgette	0.0001			3. Courgette	0.001	1.10
4. Spinnach				4. Spinnach		
Mn						
Brussels	0.0000	0.83		Brussels	0.0020	2.10
1. Radish	0.016	3.20		1. Radish	0.0030	8.20
2. Choucroute	0.010	3.48		2. Choucroute	0.0010	1.30
3. Courgette	0.016	3.98		3. Courgette	0.0005	2.20
4. Spinnach				4. Spinnach	0.0005	
Ni						
Brussels	0.0000	0.67		Brussels	0.102	0.61
1. Radish	0.020	1.03		1. Radish	0.0000	0.81
2. Choucroute	0.020	1.76		2. Choucroute	0.0000	1.17
3. Courgette	0.020	0.40		3. Courgette	0.0001	1.00
4. Spinnach				4. Spinnach		
Pb						
Brussels	0.0000	1.43		Brussels	0.0000	0.20
1. Radish	0.0000	2.00		1. Radish	0.0000	0.20
2. Choucroute	0.0000	1.02		2. Choucroute	0.0001	0.001
3. Courgette	0.0000	2.71		3. Courgette	0.0000	0.120
4. Spinnach				4. Spinnach		
Co						
Brussels	0.0000	2.38		Brussels	0.010	0.010
1. Radish	0.0000	2.04		1. Radish	0.0002	0.002
2. Choucroute	0.0000	2.10		2. Choucroute	0.0000	0.017
3. Courgette	0.0000			3. Courgette		
4. Spinnach						





DOMESTIC MATERIAL MADE BY CALCIIFICATION OF MODIFIED UP RESINS WITH INCORPORATED Fe-PARTICLES - A SENSITIVE PLATFORM FOR ELECTROANALYTICAL QUANTIFICATION OF GALIC ACID

Branka Petrović¹, Marija Kostić¹, Džena Šamarić-Janković¹, Biserka Čučević¹, Gordana Šušteršič², Jovana Marinković²

¹Faculty of Chemistry, University of Novi Sad, 21000 Novi Sad, Serbia
²Faculty of Science, University of Novi Sad, 21000 Novi Sad, Serbia

Correspondence: branka.petrovic@uns.ac.rs

Abstract: This work reports on the synthesis and electroanalytical application of a novel domestic material made by the calcification of modified UP resins with incorporated Fe-particles. The material was used as a sensitive platform for the electroanalytical quantification of gallic acid. The results show that the material exhibits a high sensitivity and selectivity towards gallic acid. The electroanalytical response of the material is linear in the concentration range of 1.0 × 10⁻⁶ to 1.0 × 10⁻⁴ mol/L. The detection limit of the material is 1.0 × 10⁻⁷ mol/L. The material is stable and reusable. The proposed material is a promising candidate for the electroanalytical quantification of gallic acid.

Keywords: modified UP resins, calcification, Fe-particles, electroanalytical quantification, gallic acid.

Introduction: Gallic acid is a natural polyphenolic compound with various biological activities. It is widely distributed in plants and animals. Gallic acid has been reported to have antioxidant, anti-inflammatory, and anticancer properties. The electroanalytical quantification of gallic acid is important for its quality control and for the study of its biological activities. However, the electroanalytical quantification of gallic acid is challenging due to its low concentration and the presence of interfering species. Therefore, the development of a sensitive and selective electroanalytical platform for the quantification of gallic acid is highly desirable.

Materials and Methods: The modified UP resins were synthesized by the reaction of UP resin with various functional groups. The Fe-particles were incorporated into the modified UP resins by the calcification process. The electroanalytical quantification of gallic acid was performed using a cyclic voltammetry (CV) technique. The electroanalytical response of the material was evaluated by plotting the peak current (I_p) against the concentration of gallic acid. The linear range, detection limit, and selectivity of the material were determined.

Results and Discussion: The results show that the material exhibits a high sensitivity and selectivity towards gallic acid. The electroanalytical response of the material is linear in the concentration range of 1.0 × 10⁻⁶ to 1.0 × 10⁻⁴ mol/L. The detection limit of the material is 1.0 × 10⁻⁷ mol/L. The material is stable and reusable. The proposed material is a promising candidate for the electroanalytical quantification of gallic acid.

Conclusion: The proposed material is a promising candidate for the electroanalytical quantification of gallic acid. It exhibits a high sensitivity and selectivity towards gallic acid. The material is stable and reusable. The proposed material is a promising candidate for the electroanalytical quantification of gallic acid.

THE EFFECT OF... ON...

Abstract: This study investigates the effect of... on... The results show that... The proposed method is a promising candidate for... The proposed method is a promising candidate for...

Keywords: effect of..., proposed method, promising candidate.

The First International Conference on Sustainable Environment and Technology

Impact of green economy

High Potential, Serbia, 2023

University „Union - Nikola Tesla“

Introduction: Modern business is no longer only financial but also necessary globally. It encompasses the local, national, and international systems. Being successful in global conditions requires a new paradigm for entrepreneurs, such as a defined goal in the global market, intensive cooperation with partners, competitive advantage in distribution, and meeting a demand in the organization level as a global business.

Environmental accounting: Environmental accounting is a system of accounting that records and reports the environmental impacts of an organization's activities. It is a key component of sustainable business practices.

Conclusion: The impact of green economy is significant. It requires a new paradigm for entrepreneurs. Environmental accounting is a key component of sustainable business practices.





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