

Curriculum Vitae

Prezime: Stanić
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OBRAZOVANJE

Osnovna škola: Smederevo, Srbija, 1973 – 1981
Srednja škola: Smederevo, Srbija, 1981 – 1985
Studije hemije: Prirodno-matematički fakultet
Univerzitet u Kragujevcu
Kragujevac, 1985 – 1990
Poslediplomske studije: Prirodno-matematički fakultet
Univerzitet u Kragujevcu
Kragujevac, 1995
Doktorske studije: Prirodno-matematički fakultet
Univerzitet u Kragujevcu
Kragujevac, 2006
(dr Randel Mihajlović, mentor)
Strani jezici: Engleski jezik

PROFESIONALNA KARIJERA

Docent: Prirodno-matematički fakultet
Univerzitet u Kragujevcu
Kragujevac, 2008 – 2014
Vanredni profesor: Prirodno-matematički fakultet
Univerzitet u Kragujevcu
Kragujevac, 2014 –
Predmeti koje predaje: Analitička hemija 1
Analitička hemija 3
Hemija životne sredine
Metode analize toksičnih supstanci
Analitika prirodnih i otpadnih voda
Analiza životnih namirnica

Naučna oblast istraživanja:

Elektroanalitička hemija

UČEŠĆE NA PROJEKTIMA

<i>Domaći:</i>	<i>Broj projekta</i>	<i>Naziv projekta</i>
	142060 (2006-2010)	Razvoj novih i poboljšanje postojećih spektroskopskih i elektroanalitičkih metoda za praćenje stanja životne sredine
	172036 (2010-2020)	Sinteza novih kompleksa metala i ispitivanje njihovih reakcija sa peptidima

Naučni radovi

1. Lj. Jakšić, R. Džudović, R. Mihajlović, Z. Stanić
Coulometric titration of bases in propylene carbonate and γ -butyrolactone using hydroquinone as the depolarizer and a quinhydrone indicator electrode
J. Serb. Chem. Soc. 65 (2000) 587–593
2. R. Mihajlović, V. Kaljević, R. Džudović, Lj. Mihajlović, Z. Stanić
An atomic absorption spectrometric method for the determination of phosphorus in foodstuffs using the bismuth-phosphomolybdate complex
J. Serb. Chem. Soc. 65 (2000) 331–338
3. R. Mihajlović, Z. Stanić, M. Antonijević
Coulometric-potentiometric titration of bases and acids in γ -butyrolactone
Anal. Chim. Acta 497 (2003) 143–154
4. R. Mihajlović, Z. Stanić
Coulometric generation of hydrogen ions by oxidation of mercury in γ -butyrolactone and propylene carbonate.
Anal. Chim. Acta 516 (2004) 61–66
5. R. Mihajlović, Z. Stanić
Natural monocrystalline chalcopyrite and galena as electrochemical sensors in non-aqueous solvents. Part I: potentiometric titrations of weak acids in γ -butyrolactone and propylene carbonate
J. Solid State Electrochem. 9 (2005) 558–565
6. R. Mihajlović, Z. Stanić, M. Antonijević
Natural monocrystalline pyrite, chalcopyrite and galena as electrochemical sensors for potentiometric redox titrations in acetonitrile
Electrochim. Acta 51 (2006) 3707–3713
7. Z. Stanić, A. Voulgaropoulos, S. Girousi

Electroanalytical Study of the Antioxidant and Antitumor Agent Curcumin
Electroanal. 20 (2008) 1263–1266

8. Z. Stanić, S. Girousi
Electrochemical study of the interaction between dsDNA and copper(I) using carbon paste and hanging mercury drop electrode
Talanta 76 (2008) 116–121
9. Z. Stanić, S. Girousi
Electrochemical study of the interaction between dsDNA and copper(II) using carbon paste and hanging mercury drop electrodes
Microchim. Acta 164 (2009) 479–485
10. Z. Stanić, J. Stepanovic
Natural metal sulfides as electrochemical sensors for redox titrations in γ -butyrolactone and propylene carbonate
Monatsh. Chem. 141 (2010) 137–142
11. C. Serpi, Z. Stanić, S. Girousi
Electroanalytical study of the interaction between dsDNA and curcumin in the presence of copper(II)
Talanta 81 (2010) 1731–1734
12. C. Serpi, Z. Stanić, S. Girousi
Electroanalytical study of the interaction between double stranded dna and antitumor agent curcumin
Anal. Lett. 43 (2010) 1–16
13. Z. Simić, Z. Stanić, M. Antonijević
Use of Sulphide Minerals as Electrode Sensor for Acid-Base Potentiometric Titrations in Non-Aqueous Solvents and Their Application for the Determination of Certain Biologically Active Substances
Sensor Lett. 8 (2010) 784-791
14. Z. Simić, Z. Stanić, M. Antonijević
Application of Pyrite and Chalcopyrite Electrodes for the Acid-Base Determinations in Nitriles
J. Braz. Chem. Soc. 4 (2011) 709-717
15. B. Glišić, S. Rajković, Z. Stanić, M. Đuran
A spectroscopic and electrochemical investigation of the oxidation pathway of glycyl-D,L-methionine and its N-acetyl derivative induced by gold(III)
Gold Bull. 44 (2011) 91-98
16. S. Girousi, Z. Stanić
The Last Decade of Carbon Paste Electrodes in DNA Electrochemistry
Curr. Anal. Chem. 7 (2011) 80-100
17. Z. Stanić, T. Dimić, Z. Simić, Lj. Jakšić, S. Girousi
Electrochemical characterization and analytical application of arsenopyrite mineral in non-aqueous solutions by voltammetry and potentiometry
Polyhedron 30 (2011) 702-707

- 18.** Z. Stanić, J. Stepanovic, Z. Simić
Arsenopyrite mineral based electrochemical sensor for acid–base titrations in c-butylolactone and propylene carbonate
Monatsh. Chem. 143 (2012) 1–6
- 19.** Z. Stanić, T. Dimić, Z. Simić
Noble Metal Oxides Electrodes and Analytical Application Thereof for Acid-Base Titrations in Non-Aqueous Solvents
J. Electrochem. Soc. 159 (2012) J168-J175
- 20.** Z. Stanić, J. Stepanovic, Z. Simić
Voltammetric and potentiometric characterization of magnetite electrode for the assay of weak organic acids in non-aqueous media
Polyhedron 45 (2012) 43–47
- 21.** C. Serpi, Z. Stanić, S. Girousi
Adsorptive transfer voltammetry applied to the study of chromium-induced DNA damage in the presence of curcumin
Internat. J. Environmen. Anal. Chem. 93 (2013) 543–552
- 22.** B.B. Glišić, Z.D. Stanić, S. Rajković, V. Kojić, G. Bogdanović, M.I. Djuran
Solution study under physiological conditions and cytotoxic activity of gold(III) complexes with L-histidine-containing peptides
J. Serb. Chem. Soc. 78 (2013) 1911–1924
- 23.** Z. Stanić, T. Dimić
Natural mineral pyrite and analytical application thereof in precipitation titrations in non-aqueous solvents
New J. Chem. 37 (2013) 3612-3619
- 24.** B.Đ. Glišić, M.I. Đuran, Z.D. Stanić, S.U. Rajković
Oxidation of methionine residue in Gly-Met dipeptide induced by $[\text{Au}(\text{en})\text{Cl}_2]^+$ and influence of the chelated ligand on the rate of this redox process
Gold Bull. 47 (2014) 33–40
- 25.** Z. Stanić, Z. Simić
Palladium metal electrode and its analytical application to precipitation and acid-base analysis in aqueous and non-aqueous media
J. Solid State Electrochem. 18 (2014) 1823–1832
- 26.** Z. Simić, Z.D. Stanić
TiO₂-modified carbon paste electrode as a sensor for the assay of weak organic acids/bases and complex matrix samples
Electroanal. 27 (2015) 2699-2707
- 27.** Z. Stanić, J. Stepanović
Potentiometric determination of ascorbic acid in water–acetonitrile solution using pyrite and chalcopyrite electrodes
J. Solid State Electrochem. 20 (2016) 2879-2893

- 28.** Z. Stanić
Curcumin, a compound from natural sources, a true scientific challenge – a review
Plant Foods Hum. Nutr. 72 (2017) 1-12
- 29.** Z. Stanić
Improving therapeutic effects of curcumin – a review
J. Food Nutr. Res. - Slov. 57 (2018) 109-129
- 30.** Z. Stanić, R. Džudović, B. Vukanović, Lj. Jakšić
Pyrite/pyrrhotite mineral based electrochemical sensor for redox determination in aqueous media
Kragujevac J. Sci. 40 (2018) 57-70
- 31.** Z. Stanić
Natural sulfide minerals as electrode materials for electrochemical analysis in dipolar aprotic solvents – a review
Int. J. Electrochem. Sc. 13 (2018) 11113-11135

Naučna saopštenja

Saopštenja na međunarodnim naučnim skupovima

1. R. Mihajlović, Z. Stanić, V. Joksimović and M. Vukićević
Coulometric generation of protons by anodic oxidation of hydrogen and some organic compounds in γ -butyrolactone
Euroanalysis IX, European Conference on Analytical Chemistry, Bologna, Italy, Sep. 1-7, 1996, WeP 73.
2. R. Mihajlović, Z. Stanić
Coulometric generation of protons by anodic oxidation of some organic compounds in γ -butyrolactone
1st International Conference of the Chemical of the South-East European Countries, Chemical Sciences and Industry, June 1-4, 1998, Halkidiki, Greece, Book of Abstracts, Vol I, PO496.
3. R. Mihajlović, Z. Stanić, M. Antonijević, B. Vukanović
Natural monocrystalline pyrite as electrode material for potentiometric titration of acids in γ -butyrolactone and propylene carbonate
Euroanalysis 10, Chimia, 7-8, 1998, Abstract Book, O13, p. 352.
4. Z. Stanić, R. Mihajlović, B. Vukanović, I. Pantić
Natural monocrystalline pyrite, chalcopyrite and galena as electrochemical sensors for potentiometric redox titrations in acetonitrile
ICOSECS 5 – 5th International Conference of the Chemical Societies of the South-East-European Countries, 10-14 September, 2006, Ohrid, Book of Abstracts, Vol II, PCH – 69, p. 569.
5. R. Mihajlović, Lj. Mihajlović, S. Nikolić-Mandić, Z. Stanić, I. Pantić
Natural monocrystalline chalcocite as electrode material for potentiometric titrations of weak acids in non-aqueous solution

ICOSECS 6 – Sixth International Conference of the Chemical Societies of the South-Eastern European Countries, 10-14 September 2008, Sofia, Bulgaria, Book of Abstracts, 4-P46, p. 250.

6. R. Mihajlović, Lj. Mihajlović, S. Nikolić-Mandić, Z. Stanić, I. Pantić
A Deuterium-Palladium Electrode as a New Sensor in Non-Aqueous Solution: Potentiometric Titrations of Weak Acids in N,N-Dimethylformamide and N-Methylpyrrolidone
Euroanalysis 15, 6-10 September 2009, Innsbruck, Austria, Book of Abstracts, P117-A1, p. 249.
7. C. Serpi, Z. Stanić, S. Girousi
Electroanalytical study of the interaction between dsDNA and curcumin in the presence of copper(II)
IMA 09 – 6th International Conference Instrumental Methods of Analysis – Modern trends and Applications, 4-8 October 2009, Athens, Greece, Book of Abstracts, OP53, p. 91.
8. T. Dimić, Z. Stanić, Z. Simić
Metallic oxide coating electrodes and analytical application thereof
Euroanalysis 16, 11-15 September 2011, Belgrade, Serbia, Book of Abstracts, EC11, p. 196.
9. T. Dimić, Z. Stanić
Pyrite as a sensor for potentiometric-argentometric titration in non-aqueous media and its use for pharmaceuticals' determinations
ICOSECS 8 – 8th International Conference of the Chemical Societies of the South-East European-Countries, 27-29 June 2013, Belgrade, Serbia, Book of Abstracts, BS-AS P09, p. 50.
10. B.B. Glišić, S. Rajković, Z.D. Stanić, M. I. Djuran, G. Bogdanović, V. Kojić, Solution study and cytotoxic activity of gold(III) complexes with L-histidine-containing peptides
ICOSECS 8 – 8th International Conference of the Chemical Societies of the South-East European-Countries, 27-29 June 2013, Belgrade, Serbia, Book of Abstracts, BS-CS P06, p. 85.
11. B.Đ. Glišić, S. Rajković, Z.D. Stanić, M.I. Đuran
A spectroscopic and electrochemical investigation of the reactions of gold(III)-peptide complexes with glutathione under physiologically relevant conditions
8th International Conference of the Chemical Societies of the South-East European Countries, Belgrade, Serbia, 27-29 June 2013, BS-CB P16, p. 96.
12. Z. Simić Z. Stanić, J. Milivojević
TiO₂- carbon paste electrode as a sensor for potentiometric acid-base titrations
XXIII Congress of chemists and technologists of Macedonia, Ohrid, R. Makedonija, 8-11 October 2014, Izvodi radova, EC 010, s. 100.
13. Z. Simić, Z. Stanić
Enargite carbon paste electrode as a sensor acid-base determination in methanol and dimethylformamide
24th Congress of Chemists and Technologists of Macedonia, Ohrid, R. Macedonia,

14. Z. Stanić

Curcumin: A multifunctional compound from natural sources and current state of its research

9th Internatinal Congress on Nutrition & Health, Berlin, Germany, 20-21 Feb 2017, J Nutr Food Sci, vol. 7, no. 1, p. 45.

Saopštenja na domaćim naučnim skupovima

1. R. Mihajlović, Z. Stanić

Kulometrijsko generisanje H^+ ionova oksidacijom nekih organskih depolarizatora i vodonika rastvorenog u paladijumu u γ -butirolaktonu kao rastvaraču

XXXVII Savetovanje Srpskog hemijskog društva sa međunarodnim učešćem, Novi Sad, 1-2 jun 1995, Izvodi radova, s-125.

2. R. Mihajlović, Z. Stanić

Određivanje konstante autoprotolize γ -butirolaktone primenom vodonik-paladijumove generatorske elektrode

13. Jugoslovenski simpozijum o elektrohemiji sa međunarodnim učešćem, prošireni izvodi radova, Vrnjačka Banja, 11-15 jun, 1995, s-351.

3. R. Mihajlović, V. Kaljević, N. Ignjatović, Z. Stanić, M. Todorović, Lj. Mihajlović

Određivanje sadržaja arsena, selen, antimona i bizmuta u uglju i pepelu primenom hidridne tehnike atomske apsorpcione spektrofotometrije

Elektra II ISO 14000, *Druga međunarodna konferencija o upravljanju zaštitom životne sredine u Elektroprivredi*, Tara, 10-14 jun 2002.

4. R. Mihajlović, Z. Stanić, M. Antonijević

Coulometric-potentiometric titration of bases and acids in γ -butyrolactone

XLI Savetovanje Srpskog hemijskog društva, Beograd, 23-24 januar 2003, Izvodi radova, s-19.

5. R. Mihajlović, Z. Stanić, R. Džudović, Lj. Jakšić, B. Vukanović

The determination of the content of heavy metals in the mud of lake „Bubanj” in Kragujevac

II Regional Symposium „CHEMISTRY AND THE ENVIRONMENT”, 18-22 June 2003, Kruševac, Serbia and Montenegro, p. 115.

6. M.M. Cvijeta, R. Mihajlović, Z. Stanić

Use of the sulfide mineral pyrite as electrochemical sensor in non-aqueous solutions: potentiometric titration of weak acids in *N,N*-dimethylformamide and pyridine

XLIX Savetovanje Srpskog hemijskog društva, Kragujevac, 13-14 maj 2011, Izvodi radova, AH12-P, s-19.

7. Z.D. Stanić, J.M. Stepanović, Z.B. Simić

Electrochemical characterization and analytical application of magnetite electrode in non-aqueous solutions by voltammetry and potentiometry

50. jubilarno savetovanje Srpskog hemijskog društva, Beograd, 14-15 jun 2012, Izvodi radova, AH P1, p. 14.

8. Z.D. Stanić, J.M. Stepanović

Potentiometric characterisation and analytical application of pyrite and chalcopyrite electrode for determination of ascorbic acid
51. savetovanje Srpskog hemijskog društva, Niš, Srbija, 5-7 jun 2014, Izvodi radova, AH P13, s. 25.

9. Z.D. Stanić, J.M. Stepanović
Investigation of the electroanalytical characteristics and applicability of magnetite electrode for the pyruvic acid determination
53. savetovanje Srpskog hemijskog društva, Kragujevac, Srbija, 10-11 Jun 2016, AH P12, p. 27.

Monografije, poglavlja u naučnim knjigama

1. Z. Stanić, S. Girousi
Carbon Paste Electrodes in Potentiometry: The State of the Art and Applications in Modern Electroanalysis, in *Sensing in Electroanalysis*, K. Kalcher, R. Metelka, I. Švancara, K. Vytrás; Eds., University Press Centre, Pardubice, Czech Republic, 2011, pp. 89-128.
2. Z. Stanić, S. Girousi
Electrochemical Investigation of Some Biological Important Compounds Correlated to Curcumin in *Curcumin: Biosynthesis, Medicinal Uses and Health Benefits*, Chapter II (J. Sasaki and M. Kichida; Eds.), Nova Science Publisher, New York, 2012, pp. 39–79.
3. Z. Stanić, J. Stepanović
Potentiometric Characterization and Analytical Application of Pyrite Mineral for the Assay of Weak Organic Acids in Non-Aqueous Media in *Pyrite: Synthesis, Characterization and Uses*, Chapter III (N. Whitley and P.T. Vinsen; Eds.), Nova Science Publisher, New York, 2013, pp. 69–92.
4. Z. Stanić
Ugljenični materijali u elektrohemiji, Prirodno-matematički fakultet, Univerzitet u Kragujevcu, Kragujevac, 2015.

UDŽBENICI

1. Z. Stanić
Analitika voda i zemljišta, Prirodno-matematički fakultet, Univerzitet u Kragujevcu, Kragujevac, 2013.

ČLANSTVO U DOMAĆIM I INOSTRANIM ORGANIZACIJAMA

Član: SHD

Član uredništva: Kragujevac Journal of Science