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[Oblasti interesovanja](#)

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1987 Magistar elektrohemijske konverzije energije: [Centar za multidisciplinarnu studiju](#) Univerziteta u Beogradu
1990 Doktor fizičke hemije: [Fakultet za fizičku hemiju](#) Univerziteta u Beogradu

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1991 – 1992 Department of Chemistry, University of Southampton, England
1997 – 1999 Abteilung Oberflächenchemie und Katalyse, Universität Ulm, Germany
2001 Department of Chemistry, University of Illinois, Urbana, USA
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Oblasti interesovanja: Elektrokataliza, elektrohemijska kinetika, fizika i hemija površina
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Stručne veštine: SPM tehnike (elektrohemijska skenujuća tunelujuća mikroskopija, visinska i fazna mikroskopija atomskih sila, mikroskopija površinskog potencijala), FTIR spektroskopija, XPS, elektrohemijske tehnike uključujući tehniku rotirajuće disk electrode sa prstenom.

Znanje jezika: Engleski, ruski

Najznačajniji projekti: **Međunarodni:**

1985 – 1988 JF(DOE) 966, Structural effects in electrocatalysis of fuel cell reactions, Yugoslav-American Fund
1990 – 1992 SERC (Science and engineering Research Council), UK, H₂ adsorption on Pt electrodes
1997 – 1998 III-FSTE-1053487 Alexander von Humboldt Stiftung, Nanoscale structure and electrocatalytic activity of well-defined bimetallic electrode surfaces generated by electrodeposition
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Osnovna istraživanja:

1988 – 1991 Fundamentalna istraživanja površine materijala i elektrohemijskih procesa za nove tehnologije, Ministry of Science, Jugoslavija
1996 – 2000 Elektrodika i elektrokataliza, Ministarstvo za nauku i tehnologiju Republike Srbije
2002 – 2004 Elektrokataliza na nanočesticama: od model sistema do realnih katalizatora, Ministarstvo za nauku, tehnologije i razvoj Republike Srbije
2006 – 2010 Priprema i karakterizacija površina nanostrukturnih materijala, 141001, Ministarstvo za nauku Republike Srbije
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Izabrane publikacije: Monografije, poglavlja u knjigama:

1. **Svetlana B. Štrbac**, Radoslav R. Adžić, Electrocatalysis, Fundamentals – Electron Transfer Process; Current-Potential Relationship; Volcano Plots, in *Encyclopedia of Applied Electrochemistry*, Gerhard Kreysa, Ken-ichiro Ota, Robert F. Savinell (Eds.), Springer, New York, 2014, pp. 417–423
2. **Svetlana Štrbac**, Andrzej Wieckowski, Noble Metal Nanoislands Decoration of Au(111) and Pt(111) Single Crystal Surfaces, in *Modern Aspects of Electrochemistry*, Djokic Stojan S. (Ed), Vol. 48 (2010) p.72-118. ISBN: 978-1-4419-5588-3
3. R. Adžić, J. Wang, **S. Štrbac**, B. Nikolić, The structure of active and inactive surfaces of gold and platinum for oxygen electroreduction, *New Challenges in Catalysis II*, ed. P.Putanov, Serbian Academy of Sciences and Arts, Novi Sad, 1999, 37-48.
4. N. Marinković, K. Popović, A. Tripković, **S. Štrbac**, N. Marković, R. Adžić, Electrochemistry on Single crystal Surfaces, Chapter in monography *Role of theory in industrial catalysis development*, Ed. P. Putanov, Radovi, Vol XIII, No I, Material Science Department of the Academy of Science and arts of Vojvodina, Novi Sad (1992).

Publikovani radovi:

1. A. Maksić, M. Smiljanić, Š. Miljanić, Z. Rakočević, **S. Štrbac**, Ethanol Oxidation on Rh/Pd(poly) in Alkaline Solution, *Electrochimica Acta*, (2016), 209, 323-331.
2. A. Maksić, Z. Rakočević, M. Smiljanić, M. Nenadović, **S. Štrbac**, Methanol oxidation on Pd/Pt(poly) in alkaline solution, *Journal of Power Sources*, 273 (2015) 724-734.
3. I. Srejić, Z. Rakočević, M. Nenadović, **S. Štrbac**, Oxygen reduction on polycrystalline palladium in acid and alkaline solutions: topographical and chemical Pd surface changes, *Electrochimica Acta*, 169 (2015) 22–31.
4. **Svetlana Štrbac**, Milutin Smiljanić, Zlatko Rakočević, Electrocatalysis of hydrogen evolution on polycrystalline palladium by rhodium nanoislands in alkaline solution, *Journal of Electroanalytical Chemistry*, 755 (2015) 115–121.
5. Maja B. Đolić, Vladana N. Rajaković-Ognjanović, **Svetlana B. Štrbac**, Zlatko Lj. Rakočević, Đorđe N. Veljović, Suzana I. Dimitrijević, Ljubinka V. Rajaković, The antimicrobial efficiency of silver activated sorbents, *Applied Surface Science*, 357 (2015) 819–831.
6. M. Smiljanić, Z. Rakočević, A. Maksić, **S. Štrbac**, Hydrogen Evolution Reaction on Platinum Catalyzed by Palladium and Rhodium Nanoislands, *Electrochimica Acta* 117 (2014) 336–343.
7. Danilo Kisić, Miloš Nenadović, **Svetlana Štrbac**, Borivoj Adnađević, Zlatko Rakočević, Effect of UV/ozone treatment on the nanoscale surface properties of gold implanted polyethylene, *Applied Surface Science*, 307 (2014) 311–318.
8. M. Nenadović, J. Potočnik, M. Mitrić, **S. Štrbac**, Z. Rakočević, Modification of high density polyethylene by gold implantation using different ion energies, *Materials Chemistry and Physics*, 142 (2013) 633-639.
9. **Svetlana Štrbac**, Irina Srejić, Milutin Smiljanić, Zlatko Rakočević, The effect of rhodium nanoislands on the electrocatalytic activity of gold for oxygen reduction in perchloric acid solution, *Journal of Electroanalytical Chemistry*, 704 (2013) 24–31.
10. Milutin Smiljanić, Zlatko Rakočević, Svetlana Štrbac, Ethanol Oxidation on Pd/Au(111) Bimetallic Surfaces in Alkaline Solution, *International Journal of Electrochemical Science*, 8 (2013) 494–4954.
11. J. Potočnik, M. Nenadović, B. Jokić, **S.Štrbac**, Z.Rakočević Structural Characterization of the nickel thin film deposited by GLAD technique, *Science of Sintering*, (2013) 45 (2013) 61-67.
12. M.Smiljanić, I. Srejić, B.Grgur, Z.Rakočević, **S.Štrbac**, Hydrogen evolution on Au(111) catalyzed by rhodium nanoislands, *Electrochemistry Communications*, 28 (2013) 37-39.
13. M.Smiljanić, I. Srejić, B.Grgur, Z.Rakočević, **S.Štrbac**, Catalysis of hydrogen evolution on different Pd/Au(111) nanostructures in alkaline solution, *Electrochimica Acta*, 88 (2013) 589-596.
14. M.Smiljanić, I. Srejić, B.Grgur, Z.Rakočević, **S.Štrbac**, Catalysis of Hydrogen Evolution on Au(111) Modified by Spontaneously Deposited Pd Nanoislands, *Electrocatalysis*, 3 (2012) 369-375.
15. M.Smiljanić, I. Srejić, V. Marinović, Z.Rakočević, **S.Štrbac**, Inhibiting effect of acetonitrile on oxygen reduction on polycrystalline Pt electrode in sodium chloride solution, *Hemijska Industrija*, 66 (2012) 327-333.
16. M. Nenadović, J. Potočnik, M. Ristić, **S. Štrbac**, Z. Rakočević, Surface modification of polyethylene by Ag⁺ and Au³⁺ ion implantation observed by phase imaging atomic force microscopy, *Surface and Coatings Technology*, 206 (2012) 4242-4248.
17. I. Srejić, M.Smiljanić, B.Grgur, Z.Rakočević, **S.Štrbac**, Catalysis of oxygen reduction on Au modified by Pd nanoislands in perchloric acid solution, *Electrochimica Acta*, 64 (2012) 140-146.
18. I. Srejić, M.Smiljanić, Z.Rakočević, **S.Štrbac**, Oxygen reduction on polycrystalline Pt and Au electrodes in perchloric acid solution in the presence of acetonitrile, *International Journal of Electrochemical Science*, 6

- (2011) 3344-3354.
19. N.B. Milosavljević, M.T. Ristić, A.A. Perić Grujić, J.M. Filipović, **S.B. Štrbac**, Z.Lj. Rakočević, M.T. Kalagasidis Krušić Removal of Cu²⁺ ions using hydrogels of chitosan, itaconic and methacrylic acid: FTIR, SEM/EDX, AFM, kinetic and equilibrium study, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 388 (2011) 59-69.
 20. N.B. Milosavljević, M.T. Ristić, A.A. Perić Grujić, J.M. Filipović, **S.B. Štrbac**, Z.Lj. Rakočević, M.T. Kalagasidis Krušić, Sorption of zinc by novel pH-sensitive hydrogels based on chitosan, itaconic acid and methacrylic acid, *Journal of Hazardous Materials*, 192 (2011) 846-854.
 21. S. Štrbac, The effect of pH on oxygen and hydrogen peroxide reduction on polycrystalline Pt electrode, *Electrochimica Acta*, 56 (2011) 1597-1604.
 22. N.B. Milosavljević, M.T. Ristić, A.A. Perić Grujić, J.M. Filipović, **S.B. Štrbac**, Z.Lj. Rakočević, M.T. Kalagasidis Krušić, Hydrogel based on chitosan, itaconic acid and methacrylic acid as adsorbent of Cd²⁺ ions from aqueous solution, *Chemical Engineering Journal*, 165 (2010) 554-562.
 23. V. Marinović, S. Marinović, M. Jovanović, J. Jovanović, **S. Štrbac**, The electrochemical reduction of trinitrotoluene on a platinum wire modified by chemisorbed acetonitrile, *Journal of Electroanalytical Chemistry*, 648 (2010) 1-7.
 24. **S. Štrbac**, M.Nenadović, Lj. Rajaković, Z.Rakočević, Chemical surface composition of the polyethylene implanted by Ag⁺ ions studied by phase imaging atomic force microscopy, *Applied Surface Science*, 256 (2010) 3895-3899.
 25. M. Nenadović, **S. Štrbac**, Z.Rakočević, Quantification of the lift height for magnetic force microscopy using 3D surface parameters, *Applied Surface Science*, 256 (2010) 1652-1656.
 26. M.Nenadović, Ž.Bogdanov, **S. Štrbac**, Z.Rakočević, Force modulation microscopy – the implantation profile of Ag⁺ ions in polyethylene, *Tehnika*, 64(3) (2009) NM13-NM16.
 27. **S. Štrbac**, M.Avramov-Ivić, Oxidation of formaldehyde and ethanol on Au(111) and Au(111) modified by spontaneously deposited Ru in sulfuric acid solution, *Electrochimica Acta*, 54 (2009) 5408-5412.
 28. N.Popović, Ž.Bogdanov, B.Gončić, **S. Štrbac**, Z.Rakočević, Reactively sputtered Ni, Ni(N) and Ni3N films: Structural, electrical and magnetic properties, *Applied Surface Science*, 255 (2009) 4027-4032.
 29. M.Nenadović, **S. Štrbac**, Z.Rakočević, Optimization of parameters of a magnetic force microscope, *Tehnika*, 63(6) (2008) NM5-NM8.
 30. Z.Rakočević, R.Petrović, **S.Štrbac**, Surface roughness of ultra-thin silver films sputter deposited on a glass, *Journal of Microscopy*, 232 (2008) 595-600.
 31. M.Nenadović, **S.Štrbac**, Z.Rakočević, Effect of silver ion implantation on the surface of polyethylene, *Tehnika*, 63(5) (2008) NM7-NM10.
 32. Z.Rakočević, **S. Štrbac**, R-J. Behm, Interrupted-flux deposition: Ni on Ru(0001), *Thin Solid Films*, 517 (2008) 709-713.
 33. Z.Rakočević, N.Popović, Ž.Bogdanov, B.Gončić, **S. Štrbac**, Surface resistivity estimation by scanning surface potential microscopy, *Review of Scientific Instruments*, 79 (2008) 066101/1-066101/3.
 34. **S. Štrbac**, S.Petrović, R.Vasilić, J.Kovač, A.Zalar, Z.Rakočević, Carbon monoxide oxidation on Au(111) surface decorated by spontaneously deposited Pt, *Electrochimica Acta*, 53 (2007) 998-1005.
 35. **S. Štrbac**, C.M. Johnston, A.Wieckowski, Decorated Ru/Au(111) and Os/Au(111) surfaces: An in situ STM and electrochemistry study. *Russian Journal of Electrochemistry*, 42 (2006) 1244-1250.
 36. C.M.Johnston, **S. Štrbac**, A.Lewera, E.Sibert, A.Wieckowski, Characterization and methanol electrooxidation studies of Pt(111)/Os surfaces prepared by spontaneous deposition, *Langmuir*, 22 (2006) 8229-8240.
 37. C.M. Johnston, **S. Štrbac**, A.Wieckowski, In situ STM study of Au(111)/Os bimetallic surfaces: Spontaneous deposition and electrochemical dissolution, *Langmuir*, 21 (2005) 9610-9617.
 38. **S. Štrbac**, C. M. Johnston, G. Q. Lu, A. Crown, A. Wieckowski, In situ STM Study of Nanosized Ru and Os Islands Spontaneously Deposited on Pt(111) and Au(111) Electrodes, *Surface Science*, 573 (2004) 80-99.
 39. A. V. Tripković, **S. Štrbac**, K. Đ. Popović, Effect of temperature on the methanol oxidation on supported Pt and PtRu catalysts in alkaline solution, *Electrochemistry Communication*, 5 (2003) 484-490.
 40. **S. Štrbac**, R. J. Behm, A. Crown, A. Wieckowski, Spontaneous Ru deposition on the Au(111) surface, *Surface Science*, 517 (2002), 207-218.
 41. **S. Štrbac**, O. M. Magnussen, R. J. Behm, The structure, growth and reactivity of electrodeposited Ru/Au(111) surfaces, *Journal of Electroanalytical Chemistry*, 500 (2001) 479-490.
 42. M. Avramov-Ivić, **S.Štrbac**, V. Mitrović, The electrocatalytic properties of the oxides of noble metals in the electrooxidation of methanol and formic acid, *Electrochimica Acta*, 46 (2001) 3175-3180.
 43. **S. Štrbac**, O. M. Magnussen, R. J. Behm, CO oxidation on bimetallic Ru/Au(111) surfaces, *Journal of the Serbian Chemical Society*, 66(2) (2001) 119-129.
 44. **S. Štrbac**, O. M. Magnussen, R. J. Behm, Carbon monoxide oxidation on a Au(111) surface modified by spontaneously deposited Ru, *Journal of the Serbian Chemical Society*, 66(4) (2001) 281-287.
 45. R. Petrović, **S. Štrbac**, N. Bundaleski, Z. Rakočević, Surface roughness minimum: Ag thin layer deposited on a glass, *Journal of the Serbian Chemical Society*, 66(7) (2001) 483-490.
 46. Z. Rakočević, **S. Štrbac**, R. J. Behm, Effect of chop duration in chopped-flux deposition on deposit

- morphology. *Tehnika*, 55(2) (2000) NM12-NM16.
47. Z. Rakočević, **S. Štrbac**, N. Bundaleski, R. J. Behm, Effect of the pause duration in discontinuous deposition on deposit morphology, *Tehnika*, 55(3) (2000) NM1-NM5.
 48. Z. Rakočević, S. Štrbac, N. Bundaleski, R. J. Behm, Mobility of vacancies on the Ag(100) surface, *Tehnika* 54(6) (1999) NM1-NM4.
 49. **S. Štrbac**, O. M. Magnussen, R. J. Behm, Nanoscale pattern formation during electrodeposition: Ru on reconstructed Au(111), *Physical Review Letters*, 83 (16) (1999) 3246-3249.
 50. **S. Štrbac**, Z. Rakočević, K. I. Popov, M. G. Pavlović, R. Petrović, The role of surface defects in HOPG on the electrochemical and physical deposition of Ag, *Journal of the Serbian Chemical Society*, 64(7-8) (1999) 483-493.
 51. K.I. Popov, T. M. Kostić, M. G. Pavlović, **S. Štrbac**, Z. Rakočević, Novi pristup oceni poluprečnika zone isključenja nukleacije, *Zaštita materijala*, 39(2) (1998) 17-19.
 52. K.I. Popov, T. M. Kostić, M. G. Pavlović, **S. Štrbac**, Z. Rakočević, Zavisnost poluprečnika zone isključenja nukleacije od poluprečnika nukleusa i polarizacionih parametara, *Zaštita materijala*, 39(3) (1998) 19-20.
 53. M. Pavlović, Z. Rakočević, K. Popov, **S. Štrbac**, Metalization of ABS polymer materials, *Tehnika*, 52(3-4) (1997) NM13-NM16.
 54. M. Pavlović, N. Nikolić, G. Novaković, K. Popov, Z. Rakočević, **S. Štrbac**, I. Doroslovački, O mogućem mehanizmu uticaja dodataka na nastajanje sjajnih prevlaka cinka iz kiselih kupatila, *Zaštita materijala*, 38(3) (1997) 16-22.
 55. **S. Štrbac**, Z. Rakočević, Island growth of Au on Au(110), *Journal of the Serbian Chemical Society*, 62(5) (1997) 443-449.
 56. N. Popović, T. Dimitrijević, Ž. Bogdanov, B. Gončić, **S. Štrbac**, Z. Rakočević, Nickel film orientation change by nitrogen ion during deposition, *Vacuum*, 48 (1997) 705-708.
 57. Z. Rakočević, **S. Štrbac**, D. Peruško, N. Bibić, T. Nenadović, Scanning tunneling microscopic analysis of nucleation of CrN on the surface of highly oriented pyrolytic graphite. *Tehnika*, 51(1-2) (1996) NM1-NM4.
 58. **S. Štrbac**, Z. Rakočević, The initial stages of the nucleation and growth of Au on Au(111) observed by STM, *Journal of the Serbian Chemical Society*, 61(12) (1996) 577-582.
 59. **S. Štrbac**, Z. Rakočević, T. Nenadović, The growth of Au clusters on Au(100), *Journal of the Serbian Chemical Society*, 61(12) (1996) 1203-1208.
 60. **S. Štrbac**, R. R. Adžić, The influence of pH on reaction pathways of O₂ reduction on the Au(100) face, *Electrochimica Acta*, 41 (1996) 2903-2908.
 61. **S. Štrbac**, R.R.Adžić, The influence of OH- adsorption on the catalytic properties of gold single crystal surfaces for oxygen reduction in alkaline solutions, *Journal of Electroanalytical Chemistry*, 403 (1996) 169-181.
 62. Z. Rakočević, **S. Štrbac**, D. Peruško, N. Bibić, T. Nenadović, Pulse deposition of Au on graphite, *Thin Solid Films*, 288 (1996) 212-217.
 63. M. Avramov-Ivić, **S. Štrbac**, J. Zdravković, D. Vuković, U. Mioč, B. Andrić, Spectroscopic and electrochemical investigations of some calcification phenomena in ophthalmology and pulmonology, *Journal of the Serbian Medical Society*, 123(11-12) (1995) 299-303.
 64. Z. Rakočević, **S. Štrbac**, Pulsed deposition of chromium on graphite, *Tehnika*, 50(9-10) (1995) NM8-NM11
 65. Z. Rakočević, **S. Štrbac**, N. Bibić, D. Peruško, T. Nenadović, Scanning tunneling microscopy of the nucleation and growth of sputter-deposited Cr on graphite, *Thin Solid Films*, 257 (1995) 83-87.
 66. Lj.V. Rajaković, **S. Štrbac**, Surface morphology and the response of piezoelectric gas sensor, *Analytica Chimica Acta*, 315 (1995) 83-91.
 67. Z. Rakočević, **S. Štrbac**, N. Bibić, T. Nenadović, The diffusion of clusters and thin film growth, *Surface Science*, 343 (1995) 247-260.
 68. **S. Štrbac**, N.A. Anastasijević, R.R. Adžić, Oxygen reduction on Au(111) and vicinal Au(332) face: A rotating disk and disk-ring study, *Electrochimica Acta*, 39 (1994) 983-990.
 69. **S. Štrbac**, A. Hamelin, R.R. Adžić, Electrochemical indication of surface reconstruction of (100), (311) and (111) gold faces in alkaline solution, *Journal of Electroanalytical Chemistry*, 362 (1993) 47-53.
 70. **S. Štrbac**, R.R. Adžić, Oxygen reduction on single crystal gold electrodes in acid electrolyte, *Journal of the Serbian Chemical Society*, 57(12) (1992) 835-848.
 71. **S. Štrbac**, N.A. Anastasijević, R. R. Adžić, Oxygen reduction on Au(100) and vicinal Au(910) and Au(11,1,1) faces in alkaline solution, A rotating disc-ring study, *Journal of Electroanalytical Chemistry*, 323 (1992) 179-195.
 72. **S. Štrbac**, R.R. Adžić, Oscillatory phenomena in oxygen and hydrogen peroxide reduction on the Au(100) electrode surface in alkaline solutions, *Journal of Electroanalytical Chemistry*, 337 (1992) 355-364.
 73. R.R. Adžić, **S. Štrbac**, N. A. Anastasijević, Electrocatalysis of oxygen on gold single crystal stepped surfaces, *Materials Chemistry and Physics*, 22 (1989) 349-375.
 74. S. Štrbac, R.R. Adžić, A. Hamelin, Oxide formation on gold single crystal stepped surfaces, *Journal of Electroanalytical Chemistry*, 249 (1988) 291-310.
 75. N.A. Anastasijević, **S. Štrbac**, R. R. Adžić, Oxygen reduction on the Au(311) electrode surface in alkaline electrolyte, *Journal of Electroanalytical Chemistry*, 240 (1988) 239-252.

76. R.R. Adžić, **S. Štrbac**, Oxide formation on gold single crystal surfaces and its correlation with surface energy, *Journal of the Serbian Chemical Society*, 52(10) (1987) 587-593.
77. **S. Štrbac**, M. Jeremić, Č. Radenović, Ž. Vučinić, Kinetics of ultra-weak luminescence in maize roots induced by hydrogen-peroxide, *Studia Biophysica*, 108 (1985) 33-40.

Saopštenja:

1. **S. Štrbac**, A. Maksić, M. Smiljanić, Z. Rakočević, Methanol and Ethanol Oxidation on Pd/Pt(poly) in Alkaline Solution, 65th Annual Meeting of the International Society of Electrochemistry, 31 August - 5 September, 2014, Lausanne, Switzerland, Program & Book of Abstracts, ISE 140646.
2. M. Smiljanić, I. Srejić, Z. Rakočević, **S. Štrbac**, Oxygen Reduction on Polycrystalline Au Modified by Nanosized Pd Islands, 10th young researchers' Conference Materials Science and Engineering, December 21-23, 2011, Belgrade, Serbia, Book of abstracts, p.24.
3. **S. Štrbac**, V. Marinović, Z. Rakočević, Oxygen reduction on Polycrystalline Pt Electrode Modified by Acetonitrile in Neutral Electrolyte, 61st Annual Meeting of the International Society of Electrochemistry, Nice, France, 26 Sept – 1 Oct (2010) s-10-P-056.
4. V. Marinović, S. Marinović, S. Jovanović, M. Jovanović, **S. Štrbac**, Electrochemical Reduction of Trinitrotoluene on a Modified Platinum Electrode, 61st Annual Meeting of the International Society of Electrochemistry, Nice, France, 26 Sept – 1 Oct (2010) s-10-P-047.
5. M. Nenadović, **S. Štrbac**, Z. Rakočević, Surface texture parameters in optimizing Magnetic Force images, *Contributed Papers, Publ.Astron.Obs.Belgrade*, 84 (2008) 197-200.
6. **S. Štrbac**, Z. Rakočević, Mapping of the local surface potential distribution and CO oxidation on Pt/Au, 59th Annual ISE Meeting, Seville, Spain, 7-18 Sept (2008).
7. Z. Rakočević, N. Popović, Ž. Bogdanov, B. Goncic, **S. Štrbac**, Surface resistivity estimation using Scanning Surface Potential Microscopy, Seeing at the Nanoscale SPM Conference, Berlin, Germany, 9-10 July (2008).
8. N. Popović, Ž. Bogdanov, B. Goncic, **S. Štrbac**, Z. Rakočević, Reactively sputtered Ni, Ni(N) and Ni₃N films: structural, electrical and magnetic properties, Seeing at the Nanoscale SPM Conference, Berlin, Germany, 9-10 July (2008).
9. Z. Rakočević, **S. Štrbac**, R-J. Behm, oral presentation: Chopped-flux deposition: Ni on Ru(0001), 3rd Serbian Congress for Microscopy 3SCM, Belgrade, Serbia, 25-28 Sept (2007).
10. Z. Rakočević, R. Petrović, **S. Štrbac**, oral presentation: Surface roughness of silver ultra-thin films sputter deposited on a glass, 3rd Serbian Congress for Microscopy 3SCM, Belgrade, Serbia, 25-28 Sept (2007).
11. **S. Štrbac**, C.M. Johnston, A. Wieckowski, invited lecture: In situ STM study of bimetallic nanocatalysts for fuel cell reactions, 1st International Workshop on Nanoscience & Nanotechnology IWON 2005 and the 4th COSENT Annual Meeting, Belgrade, Serbia and Montenegro, 15-18 Nov (2005).
12. **S. Štrbac**, C.M. Johnston, A. Wieckowski, oral presentation: In situ STM study of model systems for bimetallic fuel cell catalysis, The 8th International Frumkin Symposium, "Kinetics of Electrode Processes", Moscow, Russia, 18-22 Oct (2005).
13. **S. Štrbac**, R.J. Behm, A. Wieckowski, oral presentation: Nanostructures and reactivity of Ru electrochemically and spontaneously deposited on Au(111) and Pt(111), 207th Meeting of the Electrochemical Society, Quebec City, Canada, 15-20 May (2005).
14. C.M. Johnston, **S. Štrbac**, I. Treviranus, A. Lewera W. Zhou, A. Wieckowski, oral presentation: Studies of the structure and catalytic activity of Pt(111)/Os, Au(111)/Os, Pt(111)/Ru/Os and Au(111)/Pt/Ru surfaces, 207th Meeting of The Electrochemical Society, Quebec City, Canada, 15-20 May (2005).
15. **S. Štrbac**, C.M. Johnston, A. Wieckowski, oral presentation: ECSTM study of Os/Au(111) bimetallic surface: spontaneous deposition and electrochemical dissolution, 55th Annual Meeting of the International Society of Electrochemistry, Thessaloniki, Greece, 19-24 Sept (2004).
16. C.M. Johnston, **S. Štrbac**, A. Wieckowski, oral presentation: ECSTM and methanol electro-oxidation studies of Pt(111)/Os prepared by spontaneous deposition, 55th Annual Meeting of the International Society of Electrochemistry, Thessaloniki, Greece, 19-24 Sept (2004).
17. C.M. Johnston, **S. Štrbac**, A. Wieckowski, oral presentation: Structure and reactivity to methanol of Os nanoislands on Pt(111). 36th Central Regional Meeting of the American Chemical Society, Indianapolis, IN, United States, 2-4 June (2004).
18. A. Tripković, **S. Štrbac**, K. Đ. Popović, Study of Supported Pt and Pt/Ru Catalysts: STM imaging and Methanol Oxidation in Alkaline Solutions, 54th Annual ISE Meeting, Book of Abstracts, p.23, Sao Pedro, Brazil, Sept (2003).
19. A. Tripković, **S. Štrbac**, K. Popović, J. Lović, Study of support Pt and PtRu catalysts: methanol and formic acid oxidation, 5th Yugoslav materials research society conference, YUCOMAT 2003, Book of Abstracts, p. 48, Herceg Novi, Yugoslavia (2003).
20. **S. Štrbac**, O.M. Magnussen, R. J. Behm, A. Crown, A. Wieckowski, oral presentation: Spontaneous deposition of Ru on Au(111), 53rd Annual ISE Meeting, Duesseldorf, Germany, 15-20 Sept (2002).
21. A.V. Tripkovic, K.Dj. Popovic, **S. Štrbac**, B.N. Grgur, N.M. Marković, Temperature dependence of methanol oxidation on carbon supported Pt nanocatalyst in alkaline solution, 53rd Annual ISE Meeting, Duesseldorf, Germany, 15-20. Sept (2002).

22. **S. Štrbac**, M. Avramov Ivic, Electrooxidation of formic acid, methanol and formaldehyde on Au(111)/Ru nanoelectrode, 53rd Annual ISE Meeting, Duesseldorf, Germany, 15-20 Sept (2002).
23. A.V. Tripkovic, K.Dj. Popović, S. Štrbac, B.N. Grgur, Temperature and pH effect in the methanol oxidation on supported Pt catalyst, 3rd International Conference of the Chemical Societies of the South Eastern European Countries on : " Chemistry in the New Millenium- an Endless Frontier", p.1277, Bucharest, Romania, 2002.
24. S. Štrbac, A. Wieckowski, oral presentation: In situ STM imaging of spontaneously deposited ruthenium on Au(111) and Pt(111). Physical Chemistry 2002, Belgrade, Yugoslavia, 26-28 Sept (2002). Proceedings of the 6th International Conference on Fundamental and Applied Aspects of Physical Chemistry, 1 (2002) 253-259.
25. Z. Rakočević, S. Štrbac, N.Nikolic, N.Bundaleski, Scanning tunneling spectroscopy of nanostructured Zn surfaces. Scientific Meetings - Serbian Academy of Sciences and Arts, Department of Mathematics, Physics and Geo-Sciences, 98(1, Applied Physics in Serbia-APS), (2002) 101-104.
26. **S. Štrbac**, O. M. Magnussen, R. J. Behm, CO oxidation on bimetallic Ru/Au(111) surfaces, 51th Annual ISE Meeting, Warsaw, Poland, Sept (2000).
27. **S. Štrbac**, O. M. Magnussen, R. J. Behm, Nanoscale pattern formation during electrodeposition: Ru on reconstructed Au(111), 50th Annual ISE Meeting, Pavia, Italy, 5-10. Sept (1999).
28. **S. Štrbac**, O. M. Magnussen, R. J. Behm, Selektivni rast elektrohemijski deponovanog Ru na rekonstruisanoj Au(111) ravni, YUCOMAT'99, Zbornik abstrakata, str. 72, Herceg Novi, Yugoslavia, 20-24 Sept (1999).
29. **S. Štrbac**, K. Popov, M. Pavlović, Z. Rakočević, Uloga vremena trajanja procesa taloženja pri hemijskoj metalizaciji, XIV jugoslavenski Simpozijum o elektrohemiji, Knjiga radova, str. 121-122. Bečići, Yugoslavia, 15-18 June (1998).
30. Z. Rakočević, **S. Štrbac**, T. Nenadović, Površinska gustina elektrona višekomponentnih površina, 100 godina elektrona, str. 121-124, Beograd, Yugoslavia, (1997).
31. **S. Štrbac**, Z. Rakočević, Nanoskopska ispitivanja nukleacije i rasta u toku depozicije metala, Jubilarni naučni skup, Sto godina Srpskog hemijskog društva, Knjiga radova, str. 99, Beograd, Yugoslavia, 25-26 Sept (1997).
32. **S. Štrbac**, Z. Rakočević, M. Pavlović, K. Popov, The role of defects on a substrate surface during electrochemical deposition of Ag on HOPG, 48th Annual ISE Meeting, Book of abstract, p. 596, Paris, France, 31 Aug-5 Sept (1997).
33. N. Nikolić, M. Pavlović, K. Popov, G. Novaković, **S. Štrbac**, Z. Rakočević, The topography of bright zink electrodeposit surfaces, 48th Annual ISE Meeting, Book of abstracts, p. 638, Paris, France, 31 Aug-5. Sept (1997).
34. Z. Rakočević, R. Petrović, **S. Štrbac**, Površinska hrapavost tankog sloja Ag deponovanog na Si(100), II Jugoslavenska Konferencija o novim materijalima, YUCOMAT'97, Zbornik abstrakata, str. 32, Herceg Novi, Yugoslavia, 15-19 Sept (1997).
35. **S. Štrbac**, Z. Rakočević, K.I. Popov, M.G. Pavlović, Uloga linijskih defekata u toku elektrohemijske depozicije Ag na HOPG-u, YUCOMAT'97, Zbornik abstrakata, str. 165, Herceg Novi, Yugoslavia, 15-19 Sept (1997).
36. M.G. Pavlović, **S. Štrbac**, R. Petrović, K.I. Popov, Z. Rakočević, Upoređenje tankog sloja nastalog elektrohemijskim taloženjem i fizičkim naparavanjem metala na nesrodnoj podlozi, YUCOMAT'97, Zbornik abstrakata, str. 166, Herceg Novi, Yugoslavia, 15-19 Sept (1997).
37. Z. Rakočević, **S. Štrbac**, Nukleacija i rast tankih slojeva Cr na pirolitičkom grafitu, XLI Konferencija ETRAN, Knjiga radova, str. 416-422, Zlatibor, Yugoslavia, 3-6 June (1997).
38. Z.Rakočević, **S. Štrbac**, Nanoscopic investigation of the nucleation and growth of thin films, The Physics of Ionized Gases, Edited by: B.Vujičić, S.Đurović, J.Purić, University of Novi Sad, Yugoslavia, p. 229-238 (1997).
39. Z. Rakočević, **S. Štrbac**, T. Nenadović, Pulse deposition and ordered thin films, Book of contributed papers: 18th Summer School and International Symposium on the Physics of Ionized Gases, Kotor, Yugoslavia, p. 197-200, (1996).
40. R. Petrović, **S. Štrbac**, Z. Rakočević, Book of contributed papers: Morphology and surface roughness of silver thin films deposited on glass, 18th Summer School and International Symposium on the Physics of Ionized Gases, Kotor, Yugoslavia, p. 201-204, (1996).
41. M.G. Pavlović, Z. Rakočević, K.I. Popov, **S. Štrbac**, Neki aspekti metalizacije polimernih materijala, XII Jugoslavenski Simpozijum o hemiji i tehnologiji makromolekula, YU MAKRO'96, Zbornik radova i izvoda, str. 232, Herceg Novi, Yugoslavia, 24-27 Sept (1996).
42. N. Popović, T. Dimitrijević, Ž. Bogdanov, B. Gončić, **S. Štrbac**, Z. Rakočević, Nickel film orientation change by nitrogen ion bombardment during deposition, 10th International Conference of Thin Films, Abstr. Book, p. 10, Salamanca, Spain, 23-27 Sept (1996).
43. Z. Rakočević, **S. Štrbac**, D. Peruško, N. Bibić, T.Nenadović, Impulse deposition of sputtered Au on pyrolytic graphite, 16th International Conference on Atomic Collisions in Solids, Linz, Austria, (1995).
44. **S. Štrbac**, Z. Rakočević, T. Nenadović, Deposition of sputtered gold on Au(100) observed by STM, 16th International Conference on Atomic Collisions in Solids, Linz, Austria, (1995).
45. Z. Rakočević, **S. Štrbac**, D. Peruško, N. Bibić, T. Nenadović, Analiza skanirajućom tunneling mikroskopijom

- nukleacije hrom-nitrida na površini HOPG-a, Novi Materijali'95-Izazov sutrašnjice, Zbornik apstr., str. 23, Herceg Novi, Yugoslavia, (1995).
46. Z. Rakočević, **S. Štrbac**, D. Peruško, N. Bibić, T. Nenadović, Impulsno deponovanje hroma na grafitu, Novi Materijali'95-Izazov sutrašnjice, Zbornik apstr., str. 24, Herceg Novi, Yugoslavia, (1995).
 47. Z. Rakočević, N. Bibić, T. Nenadović, **S. Štrbac**, Surface diffusion of clusters-analogy with real gas, Book of contributed papers: 17th Summer School and International Symposium on the Physics of Ionized Gases, p. 120-123, Beograd, Yugoslavia, (1994).
 48. M. Avramov Ivić, D. Vuković, J. Zdravković, **S. Štrbac**, U. Mioč, Elektrohemijaska i spektroskopska ispitivanja humanog materijala u oftalmologiji i pulmologiji, XXV Oktobarsko savetovanje rudara i metalurga, knjiga radova, str. 474-476, Bor, Yugoslavia (1994).
 49. Z. Rakočević, **S. Štrbac**, N. Bibić, D. Peruško, T. Nenadović, STM ispitivanje nukleacije i rasta spatter deponovanog hroma na grafitu, I Kongres elektronske mikroskopije, Knjiga radova, str. 179, Novi Sad, Yugoslavia, (1994).
 50. M. Avramov-Ivić, J. Zdravković, D. Vuković, **S. Štrbac**, U. Mioč, Elektrohemijasko i spektroskopsko ispitivanje kalcifikata u pulmologiji i oftalmologiji, XXXVI Savetovanje SHD, Knjiga radova, str. 232, Beograd, Yugoslavia (1994).
 51. Lj.V. Rajaković, **S. Štrbac**, Površinska morfologija i odziv piezoelektričnog gasnog senzora, XXXVI Savetovanje SHD, Knjiga radova, str. 77, Beograd, (1994).
 52. Z. Rakočević, N. Bibić, **S. Štrbac**, D. Peruško, T. Nenadović, B. Gaković, STM observation of sputter deposited Cr thin films on HOPG, Book of contributed papers: 16th Summer School and International Symposium on the Physics of Ionized Gases, Beograd 1993, p. 120-123.
 53. A. Dekanski, **S. Štrbac**, Z. Rakočević, N. S. Marinković, Površinska karakterizacija materijala savremenim spektroskopskim i mikroskopskim tehnikama, XXV Oktobarsko savetovanje rudara i metalurga, II knjiga radova, str. 775-778, Bor, 1993.
 54. M. Avramov Ivić, J. Zdravković, D. Vuković, **S. Štrbac**, U. Mioč, Electrochemical and spectroscopic analysis of peculiar medical cases caused mostly by the bad industrial conditions in working environment, Modern electrochemistry in industry and for the protection of the environment, L13, Krakow, Poland, 18-22 Oct, (1993).
 55. Z. Rakočević, **S. Štrbac**, N. Bibić, D. Peruško, T. Nenadović, R. R. Adžić, STM observation of nucleation and growth of sputter deposited gold thin films on gold single crystals, Book of contributed papers: 16th Summer School and International Symposium on the Physics of Ionized Gases, Beograd, Yugoslavia, p. 115-119, (1993).
 56. **S. Štrbac**, R. R. Adžić, Kiseonične katode: strujne oscilacije u toku redukcije kiseonika i vodonik peroksida na Au(100) u alkalnoj sredini, IX Jugoslovenski Kongres hemije i hemijske tehnologije, Izvodi radova I-97, Herceg Novi, Yugoslavia, (1992).
 57. **S. Štrbac**, N. A. Anastasijević, R. R. Adžić, Oxygen reduction on Au(100) in the dependence of pH, 41th ISE Meeting, Prague, Czechoslovakia, (1990).
 58. **S. Štrbac**, N. A. Anastasijević, R. R. Adžić, RRDE Merjenja – uticaj pH na mehanizam redukcije O₂ na Au(100), XXXII Konferencija Hemijskog društva Srbije, Beograd, Yugoslavia (1990).
 59. **S. Štrbac**, N. A. Anastasijević, R. R. Adžić, Redukcija kiseonika na Au(100) i susednim ravnima, XI Jugoslovenski Simpozijum o elektrohemiji, Rovinj, Yugoslavia (1989).
 60. **S. Štrbac**, R. R. Adžić, Redukcija kiseonika na monokristalnim elektrodama zlata sa stepenicama, XXX Savetovanje hemičara Srbije, Knjiga radova, str. 129, Beograd, Yugoslavia (1988).
 61. **S. Štrbac**, N. A. Anastasijević, R. R. Adžić, Electrocatalysis of oxygen on single crystal stepped surfaces of gold, International Conference: Chemistry and Physics of Electrified Interfaces, Ext.Abstr., 57, Bologna, Italy, (1988).
 62. **S. Štrbac**, R. R. Adžić, Efekti kristalografske orijentacije površine zlatne electrode na formiranje monomolekuskog sloja oksida, XXIX Savetovanje hemičara Srbije, Knjiga radova, str. 113, Beograd, Yugoslavia, (1987).
 63. **S. Štrbac**, N. A. Anastasijević, R. R. Adžić, Redukcija kiseonika na monokristalnim elektrodama zlata sa stepenicama, X Jugoslovenski Simpozijum o elektrohemiji, Knjiga radova, str. 36, Bečići, Yugoslavia (1987).
 64. **S. Štrbac**, N. A. Anastasijević, R. R. Adžić, Electroreduction of oxygen on gold single crystal stepped surfaces, 38th ISE Meeting, Ext.Abstr., No 544, Maastricht, The Netherlands, (1987).
 65. R. R. Adžić, N. A. Anastasijević, **S. Štrbac**, Oxygen reduction on the single crystal gold electrodes with the (111), (311) and (332) orientations, 37th ISE Meeting, Ext.Abstr., No 06-01(1), Vilnius, USSR, (1986).
 66. R.R. Adžić, **S. Štrbac**, Oxide formation on gold single crystal electrodes of various orientation, 37th ISE Meeting, Ext.Abstr., No 06-02(1), Vilnius, USSR, (1986).
 67. R.R. Adžić, A.V. Tripković, N.A. Anastasijević, **S. Štrbac**, M. Avramov-Ivić, Structural effects in electrocatalysis: electrode reactions on stepped single crystal surfaces, International Conference: Structure and Dynamics of Solid/Electrolyte Interfaces, Berlin, Germany, (1986).
 68. B. Kosanović, **S. Štrbac**, M. Ristić, T. Grozdić, N. Krstajić, M. M. Jakšić, Sinergetički, elektrokatalitički efekti kompozitnih katalizatora d-metala za katodno razvijanje vodonika na supstratima plemenitih metala, IX Jugoslovenski Simpozijum o elektrohemiji, Knjiga radova, str. 30, Dubrovnik, Yugoslavia, (1985).

69. M. Ristić, **S. Štrbac**, B. Kosanović, N. Krstajić, T. Grozdić, M. M. Jakšić, Synergetic electrocatalytic effects of composite d-metals catalysts for the hydrogen evolution reaction on platinum metal surfaces, 36th ISE Meeting, Ext.Abstr., No 05060, Salamanka, Spain, (1985).
 70. B. Kosanović, **S. Štrbac**, T. Grozdić, M. M. Jakšić, Electrocatalytic activity of the Brewer intermetallic phases for the hydrogen evolution reaction, 36th ISE Meeting, Ext.Abstr., No 02050, Salamanka, Spain, (1985).
 71. **S. Štrbac**, M. Jeremić, Č. Radenović, Ž. Vučinić, Ispitivanje uticaja H_2O_2 i $KMnO_4$ na USS korena kukuruza, XXV Savetovanje hemičara Srbije, Knjiga radova, C74-C75, Beograd, Yugoslavia, (1983).
 72. **S. Štrbac**, Ž. Vučinić, Č. Radenović, M. Jeremić, M. Penčić, Analiza USS korena kukuruza izazvanog vodonik peroksidom, kalijum permanganatom i askorbinskom kiselinom, VI Simpozijum jugoslovenskog društva za fiziologiju biljaka, Knjiga radova, str. 98, Novi Sad, Yugoslavia, (1983).
 73. M. Jeremić, **S. Štrbac**, Ž. Vučinić, D. Fidler, Č. Radenović, Kinetički procesi USS na biljnom tkivu, XVI Jugoslovenski Simpozijum biofizike, Knjiga radova, str. 22, Opatija, Yugoslavia, (1983)
-