



Dr Srđan Petrović

Viši naučni saradnik



Profesionalno iskustvo Obласти interesovanja Projekti Izabrane publikacije

Adres: NU Institut za hemiju, tehnologiju i metalurgiju, Univerzitet u Beogradu, Centar za katalizu i hemijsko inženjerstvo, Njegoševa 12, 11000 Beograd 6, PAK 125213, Republika Srbija
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Obrazovanje: doktor fizičko-hemijskih nauka, Fakultet za fizičku hemiju, Univerzitet u Beogradu, Beograd, Srbija

Zvanja: 2010 - Viši naučni saradnik – Univerzitet u Beogradu, Institut za hemiju, tehnologiju i metalurgiju

Članstva u društvima: Srpsko hemijsko društvo, Društvo fiziko-hemičara Srbije

Profesionalno iskustvo: 1991 – danas: IHTM – Centar za katalizu i hemijsko inženjerstvo

Obласти interesovanja: Hetrogena kataliza, nauka o materijalima, ekologija i zaštita čovekove okoline

Stručne veštine: Gasna hromatografija

Znanje jezika: engleski

Najznačajniji projekti: Osnovna istraživanja:

2014 - 2017: Development of advanced catalytic systems applicable to chemical and photochemical processes for neutralization of environmental pollutants

2014 – 2017: COST Action ES1306, Connecting European connectivity research

2014 – 2017: ESSM COST Action ES1308 – ClimMani: Climate Change Manipulation Experiments in Terrestrial Ecosystems: Networking and Outreach

2011-2014: „Proučavanje fizičko-hemijskih i biohemijskih procesa u životnoj sredini koji utiču na zagađenje i istraživanje mogućnosti za minimiziranje posledica“ (MNTR br. 172001)

2008 - 2012: Nanostrukturni termostabilni katalitički sistemi sa niskim hidrodinamičkim otporom za prečišćavanje otpadnih gasova

Izabrane publikacije:

- ❖ Ljiljana Rožić, Boško Grbić, **Srđan Petrović**, Nenad Radić, Ljiljana Damjanović, Zorica Vuković, **The tungsten heteropolyacid supported on activated bentonites as catalyst for selective oxidation of 2-propanol**, Materials Chemistry and Physics, 167, (2015) 42-48
- ❖ **S. Petrović**, S. Stojadinović, Lj. Rožić, N. Radić, B. Grbić, R. Vasilić, **Process modelling and analysis of plasma electrolytic oxidation of titanium for TiO₂/WO₃ thin film photocatalysts by response surface methodology**, Surface and Coatings Technology, 269 (2015) 250–257
- ❖ L.J. Rožić, **S. Petrović**, N. Radić, S. Stojadinović, R. Vasilić, P. Stefanov, B. Grbić, **Fractal approach to surface roughness of TiO₂/WO₃ coatings formed by plasma electrolytic oxidation process**, Thin Solid Films, (539) (2013) 112–116
- ❖ **Petrović, S.**, Rožić, L., Vuković, Z., Novaković, T., Stanisavljev, D., **Response surface optimization for activation of bentonite using microwave irradiation**, (2012) Clays and Clay Minerals, 60, (1) pp 32-39
- ❖ **Petrović S.**, Terlecki-Baričević A., Karanović Lj., Kirilov-Stefanov P., Zdujić M., Dondur V., Paneva D., Rakić V., **LaMO₃ (M = Mg, Ti, Fe) perovskite type oxides: Preparation, characterization and catalytic properties in methane deep oxidation**, (2008) Applied Catalysis B: Environmental, 79 (2) , pp. 186-198.
- ❖ **Petrović S.**, Rakić V., Jovanović D.M., Barčević A.T., **Oxidation of CO over Ru containing perovskite type oxides**, (2006) Applied Catalysis B: Environmental, 66 (3-4) , pp. 249-257.
- ❖ Rožić Lj.S., **Petrović S.P.**, Novaković T.B., Čupić Ž.D., Grbavčić Ž.B., Jovanović D.M., **Textural and fractal properties of CuO/Al₂O₃ catalyst supports**, (2006) Chemical Engineering Journal, 120 (1-2) , pp. 55-61.

- ❖ Rožić L.J., Novaković T., **Petrović S.**, Čupić Ž., Grbavčić Ž., Rosić A., **The sorption and crystallographic characteristics of alumina activated in a reactor for pneumatic transport**, (2006) Journal of the Serbian Chemical Society, 71 (11) , pp. 1237-1246.
 - ❖ **Petrović S.**, Karanović L., Stefanov P.K., Zdujić M., Terlecki-Baričević A., **Catalytic combustion of methane over Pd containing perovskite type oxides**, (2005) Applied Catalysis B: Environmental, 58 (1-2) , pp. 133-141.
 - ❖ **Petrović S.**, Kirilov-Stefanov P., Karanović Lj., Zdujić M., Terlecki-Baričević A., **Mechanochemical activation in synthesis of $\text{LaTi}_{0.5}\text{Mg}_{0.5}\text{O}_3$ Perovskite-type oxide**, (2004) Materials Science Forum, 453-454 , pp. 417-422.
 - ❖ Terlecki-Baričević A., **Petrović S.**, Jovanović D., Karanović L.J., Marinova C., **Characterization and carbon monoxide oxidation activity of $\text{La}_{1-\gamma}\text{Sr}_\gamma\text{Cr}_{1-x}\text{Ru}_x\text{O}_3$ perovskites**, (2000) Journal of the Serbian Chemical Society, 65 (1) , pp. 15-25.
 - ❖ Bradow R., Jovanović D., **Petrović S.**, Jovanović Ž., Terlecki-Barčević A., **Ruthenium perovskite catalysts for lean NOx automotive emission control**, (1995) Industrial and Engineering Chemistry Research, 34 (6) , pp. 1929-1932.
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