



Mr Dragan Tanasković

Stručni savetnik



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Obrazovanje: **1984.** Diplomirao Elektrotehnički fakultet BU
1997. Magistar tehničkih nauka
2016. Doktor tehničkih nauka

Zvanja: **1997.** Istraživač pripravnik
2001. Istraživač saradnik
2005. Stručni saradnik

Članstva u društvima: Optičko društvo Srbije
Savez inženjera i tehničara Srbije

Profesionalno iskustvo: **1984 – 1987. Institut za automobile u Kragujevcu.**
1987 – danas Institut za hemiju, tehnologiju i metalurgiju – Centar za mikroelektronske tehnologije i monokristale

Oblasti interesovanja:

- MEMS senzori, karakterizacija senzora, mikroelektronika
- Nanofotonika, nanoplazmonika.
- hemijski i biološki senzori, plazmonski senzori.
- Piezootporni senzori pritiska, akcelerometri.
- Modelovanje u elektromagnetici.

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Znanje jezika: engleski, francuski

Najznačajniji projekti: **Međunarodni:**

2008 – 2012 Reinforcement of Regional Microsystems and Nanosystems Centre REGMINA, Proj. No. 205533, 7th Framework Programme, European Union (project co-chair)

Nacionalni:

1996 – 2000. Mikroelektronika, optoelektronika i mikrosistemske tehnologije, Proj.Br. 10E05, Ministarstvo nauke i tehnologije, Republika Srbija

2002 – 2004. Mikrosistemske i nanosistemske tehnologije za senzore i optoelektroniku, Proj. Br. IT.1.04.0062.B, Ministarstvo nauke i zaštite životne sredine, Republika Srbija

2005 – 2007. Mikro i nanosistemske tehnologije, strukture i senzori, Proj.Br. TR-6151, Ministarstvo nauke i zaštite životne sredine, Republika Srbija

2008 – 2010. Mikrosistemske i nanosistemske tehnologije i uređaji, Proj.Br. 11027, Ministarstvo nauke i tehnološkog razvoja, Republika Srbija

2011 – 2016. Mikro i nanosistemi za primenu u elektroprivredi, procesnoj industriji i zaštiti životne sredine MiNaSis, Proj.Br. TR-32008, Ministarstvo obrazovanja, nauke i tehnološkog razvoja, Republika Srbija

Izabrane publikacije:

- 1) **D. Tanasković**, Z. Jakšić, M. Obradov, O. Jakšić, "Super unit cells in aperture-based metamaterials", Journal of Nanomaterials, Vol. 2015, Article ID 312064, 1-9, Jan 2015, doi 10.1155/2015/312064
- 2) **D. Tanasković**, M. Obradov, O. Jakšić, Z. Jakšić, "A low-loss double fishnet metamaterial based on transparent conductive oxide", Physica Scripta, accepted for publication, corrected proof, 2014 (IF=1.296 in 2013, 34/77 in Physics, Multidisciplinary), ISSN 0031-8949
- 3) **D. Tanasković**, Z. Jakšić, J. Matović, "Some design considerations for nanomembrane-based fishnet metamaterials operating at optical frequencies", Proc. 17th Telecommunications forum TELFOR 2009, Belgrade, November 24-26, 2009, pp. 851-854, ISBN 978-86-7466-375-2
- 4) **D. Tanasković**, Z. Jakšić, "Enhancing Performance of Nanohole-Based Plasmonic Sensors by Transparent Conductive Oxides", Proc. 28th Internat. Conf. on Microelectronics MIEL 2012, Niš, Serbia, May 13-16, pp. 199-202, 2012, ISBN 978-1-4673-0235-7
- 5) **D. Tanasković**, Z. Jakšić, K. Radulović, O. Jakšić, M. Sarajlić, Ž. Lazić, "Nanoaperture array-based plasmonic sensors of dangerous substances using transparent conductive oxides", Proc. 5th

International Scientific Conference on Defensive Technologies OTEH 2012, Belgrade, pp. 707-712, Sep. 18-19, 2012, isbn 978-86-81123-85-4.

- 6) **D. Tanasković**, Z. Jakšić, Jovan Matović, "Some design considerations of metamaterial-based chemical or biological sensors", Proc. Abstr. 3rd Mediterranean Conference on Nanophotonics MediNano-3, Belgrade, Serbia, October 18 and 19, 2010, p. 61
- 7) **D. Tanasković**, Z. Jakšić, "2D nanoaperture arrays in transparent conductive oxide thin films as a scaffold for surface plasmon resonance chemical sensing", Proc. 55th Conference for Electronics, Telecommunications, Computers, Automation and Nuclear Engineering ETRAN, Banja Vrućica, June 6-9, 2011, pp. MO2.5.1-4, ISBN 978-86-80509-66-2
- 8) **D. Tanasković**, Z. Jakšić, M. Vorkapić, "Projektovanje metamaterijala za optičku talasnu oblast zasnovanog na dvostrukim fishnet strukturama formiranim u slobodnostojećim nanomembranama", Proc. 54th Conference for Electronics, Telecommunications, Computers, Automation and Nuclear Engineering ETRAN, Donji Milanovac, June 7-11, 2010, pp. MO3.7.1-4, ISBN 978-86-80509-65-5
- 9) Z. Jakšić, S. Vuković, J. Matović, D. Tanasković, "Negative Refractive Index Metasurfaces for Enhanced Biosensing", Materials, 4 (1), pp. 1-36, 2011; doi:10.3390/ma4010001 (IF=1.679 in 2011, 88/230 in Materials Science, Multidisciplinary) ISSN 1996-1944
- 10) Z. Jakšić, **D. Tanasković**, J. Matović, "Fishnet-based metamaterials: spectral tuning through adsorption mechanism", Acta Physica Polonica A, 116, 4, pp. 333-335, 2009, (IF 0.340 u 2007, Physics, Multidisciplinary 60/68) ISSN 0587-4246
- 11) Z. Jakšić, S. Ostojić, **D. Tanasković**, J. Matović, "Vacuum fluctuations in optical metamaterials containing nonlinear dielectrics", Acta Physica Polonica A, 116, 4, pp. 628-630, 2009 (IF 0.340 u 2007, Physics, Multidisciplinary 60/68) ISSN 0587-4246
- 12) Z. Jakšić, **D. Tanasković**, J. Matović, "Design of Symmetric Planar Fishnet Metamaterials for Optical Wavelength Range", Proc. 27th Internat. Conf. on Microelectronics MIEL 2010, Niš, Serbia, 16-19 May 2010, pp. 157-160, isbn 978-1-4244-7199-7
- 13) Z. Jakšić, K. Radulović, **D. Tanasković**, "Metal Nanowire Arrays with Ultralow or Negative Effective Permittivity for Adsorption-Based Chemical Sensing", Proc. 26th Internat. Conf. on Microelectronics MIEL 2008, Niš, Serbia, 11-14 May 2008, pp. 87-90
- 14) Z. Jakšić, O. Jakšić, Z. Djurić, P. Krstajić, Ž. Lazić, **D. Tanasković**, M. Popović, "Simple Quasi-3D Photonic Crystal Planar Optical Waveguides", Proc. 5th Internat. Conf. on Telecommunications in Modern Satellite, Cable and Broadcasting Services TELSIKS 2001, Sep. 19-21, 2001, Niš, Vol. II, pp. 389-392
- 15) Z. Jakšić, S. Ostojić, **D. Tanasković**, J. Matović, "Vacuum fluctuations in optical metamaterials containing nonlinear dielectric", Book of Abstr. 2nd Internat. School and Conf. on Photonics Photonica 09, Belgrade, Serbia, 24-28 Aug. 2009, p. 116
- 16) Z. Jakšić, **D. Tanasković**, J. Matović, "Fishnet-based metamaterials: spectral tuning through adsorption mechanism", Book of Abstr. 2nd Internat. School and Conf. on Photonics Photonica 09, Belgrade, Serbia, 24-28 Aug. 2009, p. 115, ISBN 978-86-82441-25-0
- 17) M. Marinković, **D. Tanasković**, "Određivanje fotoniskih procepa i optimalnih parametara 2D fotoniskog kristala napravljenog od dielektričnih štapova", Proc. 52nd Conference for Electronics, Telecommunications, Computers, Automation and Nuclear Engineering ETRAN, Palić, June 8-12, 2008, pp. MO3.4-1-3