

Радови објављени у научним часописима међународног значаја (M21, M22, M23):

A. Matković, M. Chhikara, M. Milićević, U. Ralević, B. Vasić, Dj. Jovanović, M. R. Belić, G. Bratina, and R. Gajić, "*Influence of a gold substrate on the optical properties of graphene*", J. Appl. Phys. **117**, 015305, (2015).

M. Kratzer, B. C. Bayer, P. R. Kidambi, A. Matković, R. Gajić, A. Cabrero-Vilatela, R. S. Weatherup, S. Hofmann, and C. Teichert, "*Effects of PMMA transfer residues on the growth of organic semiconductor molecules on CVD graphene*", Appl. Phys. Lett. **106**, 103101, (2015).

A. Golubović, B. Simović, M. Šćepanović, D. Mijin, A. Matković, M. Grujić-Brojčin, B. Babić, "*Synthesis of Anatase Nanopowders by Sol-gel Method and Influence of Temperatures of Calcination to Their Photocatalytic Properties*", Science of Sintering **47**, 41-49, (2015).

M. Chhikara, E. Pavlica, A. Matković, A. Beltaos, R. Gajić, and G. Bratina, "*Pentacene on graphene: differences between single layer and bilayer*", Carbon **69**, 162-168, (2014).

M. Chhikara, E. Pavlica, A. Matković, R. Gajić, and G. Bratina, "*Effect of water layer at SiO₂/graphene interface on pentacene morphology*", Langmuir **30**, 11681-11688, (2014).

A. Beltaos, A. G. Kovačević, A. Matković, U. Ralević, S. Savić-Šević, Dj. Jovanović, B. M. Jelenković, and R. Gajić, "*Femtosecond laser induced periodic surface structures on multi-layer graphene*", J. Appl. Phys. **116**, 204306, (2014).

A. Beltaos, A. Kovačević, A. Matković, U. Ralević, Dj. Jovanović, B. Jelenković and R. Gajić, "*Damage Effects on Few-layer Graphene from Femtosecond Laser Interaction*", Phys. Scr. **T162**, 014015, (2014).

A. Matković, U. Ralević, M. Chhikara, M. M. Jakovljević, Dj. Jovanović, G. Bratina, and R. Gajić, "*Influence of transfer residue on the optical properties of chemical vapor deposited graphene investigated through spectroscopic ellipsometry*", J. Appl. Phys. **114**, 123523 (2013).

B. Vasić, M. Kratzer, A. Matković, A. Nevesad, U. Ralević, Dj. Jovanović, C. Ganser, C. Teichert, and R. Gajić, "*Atomic force microscopy based manipulation of graphene using dynamic plowing lithography*", Nanotechnology **24**, 015303, (2013).

D. Stojanović, A. Matković, S. Aškračić, A. Beltaos, U. Ralević, Dj. Jovanović, D. Bajuk-Bogdanović, I. Holclajtner-Antunović, and R. Gajić, "*Raman spectroscopy of graphene: doping and mapping*", Phys. Scr. **T157**, 014010, (2013).

M. Kratzer, S. Klima, C. Teichert, B. Vasić, A. Matković, U. Ralević, and R. Gajić, "*Temperature dependent growth morphologies of parahexaphenyl on SiO₂ supported exfoliated graphene*", J. Vac. Sci. Technol. **B 31**, 04D114, (2013).

A. Matković, A. Beltaos, M. Milićević, U. Ralević, B. Vasić, Dj. Jovanović, and R. Gajić, "*Spectroscopic imaging ellipsometry and Fano resonance modeling of graphene*", J. Appl. Phys. **112**, 123523 (2012).

A. Matković, U. Ralević, G. Isić, M. M. Jakovljević, B. Vasić, I. Milošević, D. Marković, and R. Gajić, "*Spectroscopic ellipsometry and the Fano resonance modeling of graphene optical parameters*", Phys. Scr. **T149**, 014069, (2012).

Саопштење са међународног скупа штампано у целини (M33):

D. Todorović, I. Salom, A. Matković, Dj. Jovanović, and M. Milićević, „*Prospects of Graphene in Acoustics and Audio-technology*“, (talk), 2nd International Acoustics and Audio Engineering Conference TAKTONS 2013, 978-86-7892-555-9, 23-23, Novi Sad, Serbia, (2013).

Саопштење са међународног скупа штампано у изводу (M34):

M. Milićević, A. Matković, B. Vasić and R. Gajić, “*Influence of electron beam irradiation on graphene during device production*”, (poster presentation), 27th Summer School and International Symposium on the Physics of Ionized Gases, Belgrade, Serbia, (2014).

A. Beltaos, A. Matković, U. Ralević, A. G. Kovačević, A. Krmpot, S. Savić-Šević, D. V. Pantelić, B. M. Jelenković, and R. Gajić, “*Nanoparticles generation and regrouping through the interaction of femtosecond laser beam with fewlayer graphene*”, (poster presentation), IV International School and Conference on Photonics-PHOTONICA'13, 978-86-82441-36-6, 93-93, Belgrade, Serbia, (2013).

M. Milićević, A. Matković, and R. Gajić, “*Novel and scalable approach towards reduced residue liquid phase exfoliation of graphite and graphene*”, (poster presentation), IV International School and Conference on Photonics-PHOTONICA'13, 978-86-82441-36-6, 102-102, Belgrade, Serbia, (2013).

A. Matković, U. Ralević, M. Chhikara, M. M. Jakovljević, Dj. Jovanović, G. Bratina, and R. Gajić, “*Spectroscopic ellipsometry of chemical vapor deposited graphene transferred onto a dielectric substrate*”, (poster presentation), IV International School and Conference on Photonics-PHOTONICA'13, 978-86-82441-36-6, 103-103, Belgrade, Serbia, (2013).

A. Beltaos, A. Kovačević, A. Matković, U. Ralević, Dj. Jovanović, B. Jelenković and R. Gajić, “*Damage effects on few-layer graphene from femtosecond laser interaction*”, (poster presentation), IV International School and Conference on Photonics-PHOTONICA'13, 978-86-82441-36-6, 85-85, Belgrade, Serbia, (2013).

M. Chhikara, E. Pavlica, A. Matković, A. Beltaos, D. Stojanović, Dj. Jovanović, R. Gajić, and G. Bratina, “*Initial stages of growth of pentacene on graphene*”, (poster presentation), Bulletin of the American Physical Society, March Meeting 2013, APS - American Physical Society, 58, USA, (2013).

B. Vasić, M. Kratzer, A. Nevasad, A. Matković, U. Ralević, Dj. Jovanović, C. Ganser, C. Teichert, and R. Gajić, “*Manipulation of single layer graphene using atomic force microscopy*”, (poster presentation), 4th European Nanomanipulation Workshop, Poland, (2013).

B. Vasić, M. Kratzer, A. Matković, A. Nevasad, U. Ralević, Dj. Jovanović, C. Ganser, C. Teichert, and R. Gajić, “*AFM lithography of graphene using dynamic plowing*”, (poster presentation), International Conference on Nanoscience + Technology ICN+T 2012, 2-914771-77-0, 147-147, France, (2012).

D. Stojanović, A. Matković, S. Aškrić, A. Beltaos, U. Ralević, Dj. Jovanović, D. Bajuk-Bogdanović, I. Holclajtner-Antunović, and R. Gajić, “*Raman spectroscopy of graphene: doping and mapping*”, (poster presentation), 3rd International Conference on the Physics of Optical Materials and Devices (ICOM), 978-86-7306-116-0, 122-122, Belgrade, Serbia, (2012).

U. Ralević, A. Matković, R. Gajić, C. Teichert, G. Hlawacekж, M. Kratzer, F. S. Khohkar, R. van Gastel, B. Poelsema, “*Growth of organic semiconductor film on graphene*”, (poster presentation), 17th International Winterschool on New Developments in Solid State Physics, Linz, Austria, (2012).

A. Matković, A. Beltaos, U. Ralević, M. M. Jakovljević, G. Isić, B. Vasić, Dj. Jovanović, Z. Lazić, M. M. Smiljanić, D. Vasiljević-Radović, and R. Gajić, “*Spectroscopic ellipsometry measurements of doped graphene*”, (poster presentation), Graphene 2012, BI-665/2012, 208-208, Brussels, Belgium, (2012).

A. Matković, U. Ralević, G. Isić, M. M. Jakovljević, B. Vasić, I. Milošević, D. Marković, and R. Gajić, “*Spectroscopic ellipsometry and the Fano resonance modeling of graphene optical parameters*”, (poster presentation), Photonica 2011, 978-86-7306-110-8, Belgrade, Serbia, (2011).

R. Gajić, A. Matković, U. Ralević, G. Isić, M. Jakovljević, B. Vasić, Dj. Jovanović, R. Kostić, V. Damljanović, “*Optical Spectroscopy of Single and Few-Layer Graphene*”, (talk), XVIII Symposium on Condensed Matter Physics SFKM 2011, 41-41, Belgrade, Serbia, (2011).

B. Vasić, A. Matković, U. Ralević, R. Gajić, “*Scanning Probe Microscopy of Graphene*”, (poster presentation), XVIII Symposium on Condensed Matter Physics SFKM 2011, 74-74, Belgrade, Serbia, (2011).

A. Matković, U. Ralević, G. Isić, M. M. Jakovljević, and R. Gajić, “*Optical Properties of Single Layer and Few Layer Graphene*”, (poster presentation), XVIII Symposium on Condensed Matter Physics SFKM 2011, 73-73, Belgrade, Serbia, (2011).

A. Matković, U. Ralević, G. Isić, M. M. Jakovljević, and R. Gajić, “*Optical Characterization of Single Layer and Few Layer Graphene*”, (poster presentation), Graphene 2011 (Imaginenano 2011), BI-943/2011, Bilbao, Spain, (2011).

Радови објављени у научним часописима (M53):

D. Todorović, I. Salom, Dj. Jovanović, A. Matković, M. Milićević, and M. Radosavljević, “*Graphene microphone*”, AES Convention **136**, 9063, (2014).

M. Kratzer, S. Klima, C. Teichert, B. Vasić, A. Matković, M. Milićević, and R. Gajić, “*Layer dependent wetting in parahexaphenyl thin film growth on graphene*”, E-Jour. Surf. Sci. and Nanotech. **12**, 31-39, (2014).

A. Matković, and R. Gajić, “*Spectroscopic imaging ellipsometry of graphene*”, SPIE Newsroom, doi: 10.1117/2.1201311.005227, (2013).

Саопштење са скупа националног значаја штампано у изводу (M64):

B. Simović, D. Poleti, A. Dapšević, G. Branković, A. Matković, and A. Golubović, “Enhanced photocatalytic activity of Ag modified ZnO nanopowders prepared by solvothermal method”, (talk), 22nd Conference of the Serbian Crystallographic Society, 32-32, Smederevo, Serbia, (2015).

A. Matković, M. Milićević, I. Milošević, J. Pešić, B. Vasić, M. Spasenović, and R. Gajić, „*Relating nanoscopic structure to macroscopic properties of liquid-phase exfoliated graphene*“, (talk), 13th Young Researchers' Conference Materials Sciences and Engineering, Materials Research Society of Serbia, Belgrade, Serbia, (2014).

M. Milićević, A. Matković, A. Beltaos, D. Stojanović, N. Lazarević, G. Isić, and R. Gajić, „*Infracrvena spektroskopija jednoslojnog i višeslojnog grafena*“, (talk), Šesta radionica fotonike, 978-86-82441-35-9, 24-24, Kopaonik, Serbia, (2013).

A. Matković, A. Beltaos, M. Milićević, U. Ralević, B. Vasić, Dj. Jovanović, and R. Gajić, „*Spektroskopska nulirajuća elipsometrija grafena*“, (talk), Šesta radionica fotonike, 978-86-82441-35-9, 23-23, Kopaonik, Serbia, (2013).

A. Beltaos, A. G. Kovačević, A. Matković, Dj. Jovanović, D. V. Pantelić, B. M. Jelenković, and R. Gajić, „*Interakcija femtosekundnog laserskog snopa sa grafenom: fotoluminescencija i oštećivanje*“, (talk), Šesta radionica fotonike, 978-86-82441-35-9, 26-26, Kopaonik, Serbia, (2013).

Dj. Jovanović, A. Matković, A. Beltaos, D. Stojanović, and R. Gajić, „*Ramanova spektroskopija temperaturno indukovano naprezanja u jednoslojnom grafenu prekrivenog poli(metil metakrilatom)*“, (talk), Šesta radionica fotonike, 978-86-82441-35-9, 33-33, Kopaonik, Serbia, (2013).

A. Beltaos, I. Bergmair, V. Damljanović, W. Hackl, G. Isić, M. Jakovljević, Dj. Jovanović, R. Kostić, Ž. Lazić, A. Matković, U. Ralević, M. M. Smiljanić, B. Vasić, D. Vasiljević-Radović, and R. Gajić, „*Spektroskopija grafena*“, (talk), Peta radionica fotonike, 978-86-82441-33-5, 11-11, Kopaonik, Serbia, (2012).

A. Matković, U. Ralević, A. Beltaos, M. M. Jakovljević, G. Isić, B. Vasić, Dj. Jovanović, and R. Gajić, „*Spektroskopska elipsometrija grafena*“, (talk), Peta radionica fotonike, 978-86-82441-33-5, 38-38, Kopaonik, Serbia, (2012).

G. Isić, B. Vasić, A. Matković, U. Ralević, and R. Gajić, „*Plazmonske rezonancije u infracrvenom spektru grafenskih nanostruktura*“, (talk), Peta radionica fotonike, 978-86-82441-33-5, 38-38, Kopaonik, Serbia, (2012).

U. Ralević, A. Matković, G. Isić, B. Vasić, A. Beltaos, and R. Gajić, „*Primena skenirajuće mikroskopije u analizi morfologije površina*“, (talk), Peta radionica fotonike, 978-86-82441-33-5, 41-41, Kopaonik, Serbia, (2012).

Магистарске и докторске тезе (M70)

Одбрањена докторска дисертација: „Испитивање оптичких особина графена помоћу спектроскопске елипсометрије“, Физички Факултет, Универзитет у Београду, (2015).

Одбрањена мастер теза: „Спин-Орбитна Интеракција у Елиптичним Квантним Тачкама“, Електротехнички Факултет, Универзитет у Београду, (2010).

M21=8

M22=5

M33=1

M34=16

M53=3

M64=10

M71=1

M72=1

Укупни импакт фактор: **33.356**

Укупна цитираност: **51**

Укупна цитираност без аутоцитата свих аутора: **15**