

### 3. Списак објављених научних радова

#### ***M71 Докторска дисертација (6 поена)***

Бранка Мурић „Генерисање микрооптичких структура на биолошким полимерима допираним металним јонима“, Факултет за физичку хемију, Универзитет у Београду, 18. октобар 2008.

#### ***M72 Магистарска теза (3 поена)***

Бранка Мурић „Холографске особине дихромираног желатина“, Факултет за физичку хемију, Универзитет у Београду, 4. октобар 2001.

#### **\*Радови објављени после избора у звање научни сарадник**

#### **M20 Радови објављени у научним часописима међународног значаја**

#### ***M21 Рад у врхунском међународном часопису (8 поена)***

1. Dejan Pantelić, **Branka Murić**,

“Improving the holographic sensitivity of dichromated gelatin in the blue–green part of the spectrum by sensitization with xanthene dyes,”  
*Appl. Opt.*, Vol. **40** (2001) 2871-2875.

2. Dejan Pantelić, Larisa Blažić, Svetlana Savić-Šević, **Branka Murić**, Darko Vasiljević, Bratimir Panić, Ilija Belić  
“Real-time measurement of internal stress of dental tissue using holography,”  
*Opt. Express*, Vol. **15** (2007) 6823-6830.

3. **Branka D. Murić**, Dejan V. Pantelić, Darko M. Vasiljević, Bratimir M. Panić,  
“Properties of microlenses produced on a layer of tot’hema and eosin sensitized gelatin,”  
*Appl. Opt.*, Vol. **46** (2007) 8527-8532.

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4. **Branka Murić**, Dejan Pantelić, Darko Vasiljević, Bratimir Panić,  
“Microlens fabrication on tot’hema sensitized gelatin,”  
*Opt. Mater.* Vol. **30** (2008) 1217-1220.

5\*. **Branka Murić**, Dejan Pantelić, Darko Vasiljević, Bratimir Panić, and Branislav Jelenković  
“Thermal analysis of microlens formation on a sensitized gelatin layer,”  
*Appl. Opt.*, Vol. **48** (2009) 3854-3859.

6\*. Larisa Blažić, Dejan Pantelić, Svetlana Savić-Šević, **Branka Murić**, Ilija Belić, Bratimir Panić

“Modulated photoactivation of composite restoration: measurement of cuspal movement using holographic interferometry,”

*Lasers Med Sci.* **26** (2011) 179-186.

7\*. Aleksandar J Krmpot, George G Tserevelakis, **Branka D Murić**, George Filippidis, and Dejan V Pantelić

“3D imaging and characterization of microlenses and microlenses arrays using nonlinear microscopy,”

*J. Phys. D: Appl. Phys.* **46** (2013) 195101.

### ***M22 Rad u vodećem međunarodnom časopisu (5 poena)***

1\*. Dejan Pantelić, Svetlana Savić-Šević, Darko Vasiljević, **Branka Murić**, Larisa Blažić, Marko Nikolić, Bratimir Panić

“Holographic measurement of a tooth model and dental composite contraction,”

*Materials and Manufacturing Processes*, Vol. **24** (2009) 1142-1146.

2\*. Darko Vasiljević, **Branka Murić**, Dejan Pantelić, Bratimir Panić,

“Influence of TEGS layer viscoelasticity on the imaging properties of microlenses,”

*Phys. Scr.* **T149** (2012) 014070.

3\*. **B. D. Murić**, B. M. Panić,

“Microlenses with focal length controlled by chemical processes,”

*Phys. Scr.* **T149** (2012) 014071.

4\*. **B. Murić**, D. Pantelić, D. Vasiljević, B. Zarkov, B. Jelenković, S. Pantović, M. Rosić,

“Sensitized gelatin as a versatile biomaterial with tunable mechanical and optical properties,”

*Phys. Scr.* **T157** (2013) 014018.

5\*. D. Pantelić, D. Vasiljević, L. Blažić, S. Savić-Šević, **B. Murić**, M. Nikolić

“Biomechanical models produced from light-activated dental composite a holographic analysis,”

*Phys. Scr.* **T157** (2013) 014021.

### ***M23 Rad u međunarodnom časopisu (3 poena)***

1\*. Tatjana Puškar, Darko Vasiljević, Dubravka Marković, Danimir Jevremović, Dejan Pantelić, Svetlana Savić – Šević, **Branka Murić**,

“Formiranje trodimenzionalnog matematičkog modela zuba metodom konačnih elemenata,”

*Srp. Arh. Celok. Lek.*, Jan-Feb; **138** (1-2), (2010) 19-25.

## **M30 Зборници међународних научних скупова**

### ***M33 Саопштење са међународног научног скупа штампано у целини (1 поен)***

1. **B. Murić**, D. Pantelić,  
“Influence of xanthene dyes on the holographic properties of dichromated gelatin,”  
5<sup>th</sup> International Conference on Fundamental and Applied Aspects of Physical Chemistry, Physical Chemistry 2000., Book of papers, p. 324-326.
2. **B. Murić**, D. Pantelić,  
“Dichromated albumen as a real-time holographic material,”  
6<sup>th</sup> International Conference on Fundamental and Applied Aspects of Physical Chemistry, Physical Chemistry 2002., Book of papers Vol. II, p. 532-534.
3. Darko Vasiljević, Dejan Pantelić, **Branka Murić**,  
“Imaging properties of laser-produced Gaussian profile microlenses,”  
14<sup>th</sup> International School on Quantum Electronics: Laser Physics and Applications 2007, Proc. of SPIE Vol. 6604, p. (66040Q-1)-(66040Q-5).
4. **Branka Murić**, Dejan Pantelić, Darko Vasiljević, Bratimir Panić,  
“Influence of alum on focal length of microlenses,”  
9<sup>th</sup> International Conference on Fundamental and Applied Aspects of Physical Chemistry Physical Chemistry 2008., Book of papers Vol. II, p. 530-532.
- 5\*. M.S. Rabasović, D. Šević, M. Terzić, S.Savić-Šević, **B. Murić**, D. Pantelić and B.P. Marinković,  
“Measurement of beet root extract fluorescence using TR-LIF technique,”  
*Acta Phys. Pol.*, Vol. **116** (2009) 570-572.
- 6\*. D. Vasiljević, **B. Murić**, D. Pantelić, B. Panić,  
“Aberrations of betanin sensitized gelatin microlenses,”  
*Acta Phys. Pol.*, Vol. **116** (2009) 592-594.
- 7\*. Darko Vasiljević, **Branka Murić**, Dejan Pantelić, Bratimir Panić,  
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*Phys. Scr.* **T135** (2009) 014047.
- 8\*. Vesna Vasović, Radmila Drobnjak, **Branka Murić**  
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3<sup>rd</sup> International Quality Conference, Kragujevac, 2009.  
*International Journal for Quality research*, Vol. 3 (2009) 1-4.
- 9\*. **Branka Murić**, Dejan Pantelić, Darko Vasiljević, Bratimir Panić,  
“Influence of layer thickness on the optical properties of microlenses,”  
10<sup>th</sup> International Conference on Fundamental and Applied Aspects of Physical Chemistry, Physical Chemistry 2010, Belgrade, Proceedings Vol. II, p. 438-440.
- 10\*. T. Puškar, D. Jevremović, L. Blažić, D. Vasiljević, D. Pantelić, **B. Murić**, B. Trifković

“Holographic interferometry as a method for measuring strain caused by polymerization shrinkage of dental composite,”

International Scientific Conference CONTEMPORARY MATERIALS 2010 Banja Luka.

*Contemporary Materials*, I–1 (2010) 105-111.

11\*. **Branka Murić**, Dejan Pantelić, Darko Vasiljević and Branislav Jelenković

“Sensitized gelatin as an eye protection filter against direct laser radiation,”

11<sup>th</sup> International Conference on Fundamental and Applied Aspects of Physical Chemistry, Physical Chemistry 2012, Belgrade, Proceedings Vol. I, p. 498-500.

***M34 Саопштење са међународног научног скупа штампано у изводу (0,5 поена)***

1. **B. Murić**, D. Pantelić,

“Potassium permanganate and eosin Y sensitised gelatine as a high resolution holographic material,”

Fifth General Conference of the Balkan Physical Union-BPU-5, Vrnjacka Banja, Serbia and Montenegro 2003, Book of abstracts, p. 194.

2. **Branka Murić**, Dejan Pantelić, Darko Vasiljević, Bratimir Panić,

“Microlens fabrication on tot’hema sensitized gelatin,”

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3. D. Vasiljević, **B. Murić**, D. Pantelić and B. Panić,

“Imaging properties of laser-produced parabolic profile microlenses,”

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4. D. Pantelić, L. Blažić, S. Savić-Šević, **B. Murić**, D. Vasiljević, B. Panić and I. Belić,  
“Holographic measurement of dental tissue contraction and stress, due to postpolymerization reaction,”

International School and Conference on Optics and Optical Materials-ISCOM, Belgrade 2007, Book of abstracts, p. 74.

5. Darko Vasiljević, **Branka Murić**, Dejan Pantelić, Bratimir Panić,

“Influence of chemical processing on imaging properties of microlenses,”

15<sup>th</sup> Central European Workshop on Quantum Optics-CEWQO, Belgrade 2008, Book of abstracts, p. 98-99.

6\*. B. A. Petruševski, M. Terzić, M. S. Rabasović, D. Šević, S. Savić Šević, **B. Murić**, D. Pantelić, B. P. Marinković,

“Measurement of laser-induced fluorescence of molecules using a time-resolved spectrometer,”

The Second Meeting of COST Action CM0601 Electron Controlled Chemical Lithography-ECCL, 2009, Istanbul, Turkey, Book of abstracts, p. 83.

7\*. **Branka Murić**, Dejan Pantelić, Darko Vasiljević, Bratimir Panić,

“Optical properties of betanin sensitized gelatine film”,

2<sup>nd</sup> International Conference on Physics of Optical Materials and Devices- ICOM 2009, Herceg Novi, Montenegro, Book of abstracts, p. 84.

8\*. M. Terzić, M. S. Rabasović, D. Šević, S. Savić Šević, **B. Murić**, D. Pantelić, B. P. Marinković,

“Measurement of laser-induced fluorescence of optical materials using a time-resolved spectrometer”,

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9\*. D. Vasiljević, **B. Murić**, D. Pantelić and B. Panić,

“Aberrations of betanin sensitized gelatin microlenses,”

II International School and Conference on Photonics, 2009, Belgrade, Serbia, Book of abstracts, p. 104.

10\*. M.S. Rabasović, D. Šević, M. Terzić, S.Savić-Šević, **B. Murić**, D. Pantelić and B.P. Marinković,

“Measurement of betanin fluorescence using TR-LIF technique,”

II International School and Conference on Photonics, 2009, Belgrade, Serbia, Book of abstracts, p. 91.

11\*. Puškar T., Jevremović D., Blažić L., Pantelić D., Vasiljević D., Savić – Šević S, **Murić B.**

“Stress and strain of abutment teeth due to composite core build up shrinkage,”

14<sup>th</sup> Congress of Balkan Stomatological Society, 2009, Varna Bulgaria OP037, Book of abstracts, p31.

12\*. Darko Vasiljević, **Branka Murić**, Dejan Pantelić, Bratimir Panić,

“Influence of TEGS layer viscoelasticity on the imaging properties of microlenses,”

3<sup>rd</sup> Mediterranean Conference on Nanophotonics, 2010, Belgrade, Serbia, Book of abstracts, p. 83.

13\*. **Murić Branka**, Pantelić Dejan

“Microlens formation as protective mechanism against direct laser radiation,”

Third European IRPA Congress, 2010, Helsinki, Finland, Proceedings, p.2158

14\*. **B. Murić**, D. Pantelić, D. Vasiljević and B. Panić,

“Microlenses focal length control by chemical processing,”

III International School and Conference on Photonics, 2011, Belgrade, Serbia, Book of abstracts, p. 72.

15\*. D. Vasiljević, **B. Murić**, D. Pantelić and B. Panić,

“Analysis of imaging properties of microlenses based on the TEGS layer elasticity,”

III International School and Conference on Photonics, 2011, Belgrade, Serbia, Book of abstracts, p. 65.

16\*. T. Puškar, D.Vasiljević, L. Blažić, D. Marković, S. Savić-Šević, B. Murić, D. Pantelić

“Stress and strain of dental abutment caused by the polymerization shrinkage of dental composite,”

III International School and Conference on Photonics, 2011, Belgrade, Serbia, Book of abstracts, p. 118.

17\*. Aleksandar Krmpot, George Tserevelakis, George Filippidis, **Branka Murić**, and Dejan Pantelić

“Employing nonlinear imaging microscopy for characterization of microlenses produced in different biocompatible materials,”

LASERLAB USER MEETING "From quantum electronics towards medicine and particle physics" 2012, University of Szeged, Hungary, Programme and abstracts, p 17.

18\*. **B. D. Murić**, D.V. Pantelić, D. M. Vasiljević, B. G. Zarkov, B. M. Jelenković, M. A. Rosić, S. B. Pantović

“Sensitized gelatin as a versatile biomaterial with tunable mechanical and optical properties,”

The 3<sup>rd</sup> International Conference on the Physics of Optical Materials and Devices-ICOM 2012, Belgrade, Serbia, Book of abstracts p. 91.

19\*. D. Pantelić, D. Vasiljević, L. Blažić, S. Savić-Šević, **B. Murić**, M. Nikolić

“Biomechanical models produced from light-activated dental composite a holographic analysis,”

The 3<sup>rd</sup> International Conference on the Physics of Optical Materials and Devices-ICOM 2012, Belgrade, Serbia, Book of abstracts p. 148.

#### **M60 зборници скупова националног значаја**

**M61 Предавање по позиву са скупа националног значаја штампано у целини (1.5 поен)**

1\*. Dejan Pantelić, **Branka Murić**, Darko Vasiljević

“Zaštita od laserskog zračenja,”

XXVI Simpozijum DZZSCG, Tara 2011, Zbornik radova p.24-27.

#### **M63 Саопштење са скупа националног значаја штампано у целини (0.5 поена)**

1. **B. Murić**, D. Pantelić,

“Ispitivanje holografskih osobina dihromiranog želatina,”

10. Kongres fizičara Jugoslavije, Vrnjačka Banja 2000, Zbornik radova- knjiga I, p.123-126.

2. **B. Murić**, D. Pantelić,

“Holografski efekti u realnom vremenu u dihromiranom želatinu senzibilizovanom ksantenskim bojama,”

XLV Konferencija ETRANA, Bukovička Banja 2001, Zbornik radova, Sveska IV, p. 317 -319

3. **B. Murić**, D. Pantelić,

“Practical applications of holography,”

APPLIED PHYSICS IN SERBIA-APS, Belgrade 2002, Contributed papers and abstracts of invited lectures, Book 2/1, p.163-166.

4. **Branka Murić**, Dejan Pantelić, Darko Vasiljević, Bratimir Panić, “Osobine mikrosočiva formiranih na slojevima želatina senzibilizovanog tot’hemom i eozinom,”

51. Konferencija za ETRAN, Herceg Novi – Igalo 2007, Zbornik radova (CD), MO 4.5.

5. **Branka Murić**, Dejan Pantelić, Darko Vasiljević, Bratimir Panić, “Termovizijska analiza mehanizma formiranja mikrosočiva,”

52. Konferencija za ETRAN, Palić 2008, Zbornik radova (CD), MO 5.3.

***M64 Саопштење са скупа националног значаја штампано у изводу (0.2 поена)***

1. D. Veselinović, S. Jovanović, **B. Murić**,

“Sadržaj teških metala u reci Đetinji,”

III Savetovanje fizikohemičara Srbije “FIZIČKA HEMIJA 96”, Beograd 1996, Knjiga izvoda p. 351.

2. D. Pantelić, S. Savić-Šević, D. Vasiljević, B. Murić, L. Blažić, M. Nikolić, B. Panić, “Holographic measurement of dental composite contraction,”

Tenth annual conference YUCOMAT, Herceg Novi, Montenegro 2008, Programme and the book of abstracts, p. 57.

3. Tatjana Puškar, L. Blažić, D. Pantelić, D. Vasiljević, S. Savić-Šević, **B. Murić**, D. Marković,

“Holografska interferometrija u stomatološkoj protetici,”

XV simpozijum protetičara Srbije, Palić, 12-15. juna 2008, Kratki sadržaji predavanja i postera, p. 44.

4\*. **Branka Murić**, Dejan Pantelić, Darko Vasiljević, Bratimir Panić, “Lasersko formiranje mikrosočiva,” FOTONIKA 2009-teorija i eksperiment u Srbiji, Beograd 2009, Zbornik apstrakata, p14.

5\*. Darko Vasiljević, Tanja Puškar, Dejan Pantelić, Svetlana Savić-Šević, **Branka Murić**, Bratimir Panić, “Uprošćeni matematički model zubnog patrljka za analizu deformacija i napona,” FOTONIKA 2009-teorija i eksperiment u Srbiji, Beograd 2009, Zbornik apstrakata, p8.

6\*. **Branka Murić**, Dejan Pantelić Darko Vasiljević, Mirko Rosić, Suzana Pantović, “Mehaničke osobine sloja želatina senzibilizovanog tot’hemom i eozinom (TESG),” FOTONIKA 2010-teorija i eksperiment u Srbiji, Beograd 2010, Zbornik apstrakata, p5.

Диференцијални услов- Од првог избора у претходно звање до избора у звање.....	потребно је да кандидат има најмање XX поена, који треба да припадају следећим категоријама:		
		Неопходно XX=	Остварено
<b>Научни сарадник</b>	Укупно	16/2= <b>8</b>	52.1
	$M_{10}+M_{20}+M_{31}+M_{32}+M_{33}$ $M_{41}+M_{42} \geq$	10/2= <b>5</b>	43
	$M_{11}+M_{12}+M_{21}+M_{22}$ $M_{23}+M_{24} \geq$	5/2= <b>2.5</b>	32
<b>Виши научни сарадник</b>	Укупно	48	
	$M_{10}+M_{20}+M_{31}+M_{32}+M_{33}$ $M_{41}+M_{42}+M_{51} \geq$	40	
	$M_{11}+M_{12}+M_{21}+M_{22}$ $M_{23}+M_{24}+M_{31}+M_{32}+M_{41}+M_{42}$ $\geq$	28	
<b>Научни саветник</b>	Укупно	65	
	$M_{10}+M_{20}+M_{31}+M_{32}+M_{33}$ $M_{41}+M_{42}+M_{51} \geq$	50	
	$M_{11}+M_{12}+M_{21}+M_{22}$ $M_{23}+M_{24}+M_{31}+M_{32} \geq$	35	

\*Сви радови Physica Scripta рачунати по 1 поен.



## **Цитираност радова:**

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“Improving the holographic sensitivity of dichromated gelatin in the blue–green part of the spectrum by sensitization with xanthene dyes,”

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## **Цитати:**

1. N.D. Vorzobova, Ye.V. Sokolova, N.M. Kalinina, R.V. Ryabova, A.N. Ponomarev,

“Holographic materials for recording in the blue spectrum region,”

Molecular Crystals and Liquid Crystals, 535 (2011) 167-173.

2. A. Villamarín, J. Atencia, M. V. Collados, and M. Quintanilla,

“Characterization of transmission volume holographic gratings recorded in Slavich PFG04 dichromated gelatin plates,”

Appl. Opt. 48 (2009) 4348-4353.

3. Asit B. Samui

“Holographic recording medium”

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“ Holograms recorded in organic dye sensitized dichromate gelatin”

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6. Paez-Trujillo G, Olivares-Perez A, Garay-Hernandez MP, et al.

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7. Manickasundaram S, Kannan P, Deepa S, et al.

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“Polypeptide-polysaccharides holographic micro-structuration for biophysics applications”

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**Цитати:**

1. Xiaomei Li, Steven Soo

“Numerical Simulation of the Superplastic Forming of a Dental Ridge Augmentation Membrane,”

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**Цитиран рад:** Puskar Tatjana M Vasiljevic Darko M Markovic Dubravka Jevremovic Danimir P Pantelic Dejan V Savic-Sevic Svetlana N Muric Branka D

“Three Dimensional Mathematical Model of Tooth for Finite Element Analysis,”

Srpski arhiv za celokupno lekarstvo, 138 (2010) 19-25

**Цитати:**

1. Radović Katarina, Čairović Aleksandra, Todorović Aleksandar, Stančić Ivica, Grbović Aleksandar

“Komparativna analiza jednostrane i konvencionalne skeletirane proteze primenom metode konačnih elemenata,”

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**Цитиран рад:** Pantelić, D.V., Blažić, L., Savić-Sević, S.N., Murić, B.D., Vasiljević, D.M., Panić, B.M., Belić, I.Z.

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1. Mitrović Nenad, Milošević Miloš, Sedmak Aleksandar, Petrović Aleksandar, Prokić-Cvetković Radica

“Primena i način rada bezkontaktnog sistema za merenje deformacija u oblasti biomaterijala,”

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