

**ОБРАЗАЦ О ИСПУЊЕНОСТИ УСЛОВА  
ЗА ПРОДУЖЕТАК РАДНОГ ОДНОСА РЕДОВНОМ ПРОФЕСОРУ**

**1. Назив факултета:**

Физички факултет Универзитета у Београду

**2. Име и презиме кандидата за продужетак радног односа:**

Мићо Митровић

**3. а) Датум када је кандидат из чл. 93, ст. 2-4 Закона о високом образовању навршио, односно навршава 65. година живота:**

9.12.2018.

**б) Датум када је кандидату из чл. 146, ст. 2 Закона о високом образовању Сенат првобитно продужио радни однос по навршеној 65. години живота:**

в) Датум до када је кандидату из тачке б) Сенат првобитно продужио радни однос:

**4. Датум доношења предлога Катедре / Комисије \_\_\_\_\_ о продужетку радног односа:**

3. април 2019.

**5. Датум утврђивања предлога Наставно-научног већа о продужетку радног односа:**

24.04.2019.

**6. Број школских година за који Наставно-научно веће предлаже продужетак радног односа:**

2 (две)

**7. Назив уже научне области / предмета за који је кандидат изабран приликом избора у звање редовног професора:**

Физика кондензованог стања материје

**8. Датум и број одлуке органа Универзитета о избору у звање редовног професора (давању сагласности) за ужу научну област / предмет из тачке 7. овог обрасца:**

27.06.2012.

**9. Установе у области високог образовања у којима је кандидат био запослен у укупном трајању од најмање 20 година:**

Физички факултет Универзитета у Београду

**10. Резултати у научном раду, односно у уметничком стваралаштву и у развоју научнонаставног подмлатка на факултету након стицања звања редовног професора:**

**(приложити одговарајућу табелу А, Б, Ц, Г или Д, које су дате уз овај образац)**

Табела А у прилогу

**11. Постојећи број наставника изабраних у звање за исту ужу научну област за несметано и квалитетно обезбеђивање свих облика наставе:**

пет

**12. Навести име лица у звању сарадника изабраног за ужу научну област из тачке 7. овог обрасца у периоду од 10 година пре утврђивања предлога Наставно-научног већа из тачке 5. овог обрасца о продужетку радног односа:**

др Бранислава Мисаиловић, Биљана Максимовић и други.

**13. Ако би наставнику престала функција за коју је изабран, или нека друга активност од посебног значаја за факултет, односно Универзитет, навести ту функцију:**

Шеф катедре за наставу физике

**Уз попуњени образац ПРО доставити предлог Катедре и предлог одлуке Наставно-научног већа с образложењем о испуњености услова за продужење радног односа и временом трајања продужења.**

У Београду,

21. маја 2019. год.

**ДЕКАН ФАКУЛТЕТА**

М. П.

Проф. др Иван Белча

**Табела А) ГРУПАЦИЈА ПРИРОДНО-МАТЕМАТИЧКИХ НАУКА**

	<i>(Резултати у развоју научно-наставног подмлатка и оцена педагошког рада у периоду после избора у звање редовног професора)</i>	<b>Број изабраних сарадника и учешћа у комисији, те оцена из студентске анкете</b>
1	Резултати у развоју научно-наставног подмлатка на факултету	Ментор докторске дисертације Бранислава Мисаиловић, 2017
2	Учешће у комисији за одбрану три завршна рада на специјалистичким, односно мастер академским студијама	Више од 10 менторстава мастер радова. На пример: Мира Ђекић, Ален Халиловић, Анђелија Михајлов, Љиљана Марковић
3	Оцена педагошког рада добијена у студентским анкетама	4.36

	<i>(Резултати у научном раду)</i>	Број радова, саопштења, цитата и др.	Навести часописе, скупове, књиге и др.
4	Објављена четири рада из категорије M21, M22 или M23 од избора у звање редовног професора из научне области за коју је биран.	4	<p><b>Категорија M21a</b></p> <p>1. <i>NONGROWING FACES OF SODIUM CHLORATE CRYSTALS IN SUPERSATURATED SOLUTION</i> Branislava M. Misailović, Dragana A. Malivuk, Andrijana A. Žekić, and <b>Miće M. Mitrović</b>, Crystal Growth and Design 14 (2014) 972–978.dx.doi.org/10.1021/cg401162n. <b>IF 4.891</b></p> <p><b>Категорија M21</b></p> <p>2. <i>EFFECT OF DISSOLUTION AND REFACETING ON GROWTH RATE DISPERSION OF SODIUM CHLORATE AND POTASSIUM DIHYDROGEN PHOSPHATE CRYSTALS</i> <b>M. M. Mitrović</b>, A. A. Žekić, B. M. Misailović, B. Z. Radiša, Ind. Eng. Chem. Res. 2014, 53, 19643–19648. DOI: 10.1021/ie502851m. <b>IF 2.587</b></p> <p>3. <i>INVESTIGATION OF GROWTH MECHANISMS OF SODIUM CHLORATE CRYSTALS FROM AQUEOUS SOLUTIONS</i> Biljana Z. Radiša, <u>Miće M. Mitrović</u>, Branislava M. Misailović, and Andrijana A. Žekić, Ind. Eng. Chem. Res. 2016, 55, 10436–10444. DOI: 10.1021/acs.iecr.6b02021. <b>IF 2.843</b></p> <p><b>Категорија M22</b></p> <p>4. <i>DISSOLUTION OF SODIUM CHLORATE CRYSTALS IN SUPERSATURATED SOLUTIONS</i> Dragana A. Malivuk, Andrijana A. Žekić, <u>Miće M. Mitrović</u>, Branislava M. Misailović, J. Gry. Growth <b>377(2013)164–169</b>. dx.doi.org/10.1016/j.jcrysgro.2013.05.018. <b>IF 1.693</b></p>
5	Цитираност од 10 хетероцитата у периоду од избора у звање редовног професора (навести само број хетероцитата)	118	

6	<p>Саопштено пет радова на међународним или домаћим скуповима од којих један мора да буде пленарно предавање или предавање по позиву на међународном или домаћем научном скупу (катеорије М31-М34 и М61-М64). Радови морају бити објављени у периоду после избора у звање редовног професора.</p>	<p><b>Предавања по позиву</b></p> <p>1. Coexistence of different growth mechanisms of sodium chlorate and potassium dihydrogen phosphate (KDP) crystals under same experimental conditions, Mićo M. Mitrović, The Collaborative Conference on Crystal Growth, September 9 to 13, 2019 in Milan, Italy (<a href="http://emnmeeting.org/2019-3cg/">http://emnmeeting.org/2019-3cg/</a>).</p> <p>2. Greške fizičkih merenja u srednjoj školi, Mićo M. Mitrović, Branislava M. Misailović, Biljana Z. Maksimović, Andrijana A. Žekić, Зборник радова 6. Међународне конференције о настави физике у средњим школама, Алексинац, 9-11. март 2018.</p> <p><b>Остали радови (изабрани)</b></p> <p>3. УТИЦАЈ ПРЕДИСТОРИЈЕ РАСТВОРА НА ДИСПЕРЗИЈЕ БРЗИНА РАСТА КРИСТАЛА РОШЕЛСКЕ СОЛИ, Биљана Радиша, Мићо Митровић, Бранислава Мисаиловић, Весна Чворић, Драгана Маливук Гак, Андријана Жекић, Contemporary Materials 4.-5. септембар 2016, Бања Лука.</p> <p>4. THE EFFECT OF SOLUTION PRE-HISTORY ON CHIRALITY OF SODIUM CHLORATE CRYSTALS FROM AQUEOUS SOLUTIONS, B. Radiša, M. Mitrović, B. Misailović, Physica Macedonica, Vol. 62, pp 1-6, Skopje 2016.</p> <p>5. КОЕГЗИСТЕНЦИЈА РАСТУЋИХ, НЕРАСТУЋИХ И КРИСТАЛА КОЈИ СЕ РАСТВОРАЈУ У ПРЕСИЋЕНИМ ВОДЕНИМ РАСТВОРИМА, Драгана Маливук Гак, Мићо Митровић, Бранислава Мисаиловић, Андријана Жекић, Биљана Радиша, Конференција ПМФ Бања Лука 16-17.9.2016.</p> <p>6. GROWTH MECHANISM OF KDP CRYSTALS FROM AQUEOUS SOLUTIONS, B. Maksimović, B. Misailović, M. Mitrović, A. Žekić, Конференција Савремени материјали, Бања Лука 9-10. новембар 2017. [БП-5]</p> <p>7. КИНЕТИКА РАСТА КРИСТАЛА ИЗ ВОДЕНИХ РАСТВОРА, А. Жекић, М. Митровић, Б. Мисаиловић, Б. Радиша, Зборник изабраних радова 4. Међународне конференције о настави физике у средњим школама, Алексинац, 2015, стр.</p> <p>8. ПРАЋЕЊЕ УЧЕЊА КОНЦЕПАТА ЊУТНОВЕ МЕХАНИКЕ ПОМОЋУ ЗБИРКЕ ТЕСТ ПИТАЊА О ПОЈМУ СИЛЕ, Андријана А. Жекић, Мирјана Поповић Божић, Мићо Митровић, Биљана Радиша, Зорица Поповић, Божидар Николић, Бранислава Мисаиловић, Зборник изабраних радова 5. Међународне конференције о настави физике у средњим школама, Алексинац 2017, стр. 243-343</p> <p>9. DEPENDENCE OF SMALL SODIUM CHLORATE CRYSTALS GROWTH RATES ON RELATIVE SUPERSATURATION OF THE SOLUTION B. Radiša, B. Misailović, A. Žekić, M. Mitrović, Book of Abstracts of XXII Conference of the Serbian Crystallographic Society, 2015, Smederevo, pp 38-39.3.</p> <p>10. ПРИМЕР ПРИМЕНЕ КОЛЕГИЈАЛНОГ ПОДУЧАВАЊА У НАСТАВИ ФИЗИКЕ У ОСНОВНОЈ ШКОЛИ, Андријана Жекић, Татјана Пајић, Слађана Николић, Мирјана Поповић-Божић, Мићо Митровић, Бранислава Мисаиловић, Биљана Радиша, Настава физике, број 4, 2017.8.</p>
7	<p>Књига из релевантне области, одобрен уџбеник за ужу област за коју је биран, поглавље у одобреном уџбенику за ужу област за коју се бира или превод иностраног уџбеника одобреног за ужу област за коју је биран, објављени у периоду од избора у наставничко звање.</p>	<p>Методика решавања задатака из физике, Физички факултет, 2006.</p>

(Изборни услови – минимално 2 од 3)

8	Стручно-професионални допринос	<p>1. Рецензент водећих међународних часописа Journal of Crystal Growth, Applied Physics B, Industrial &amp; Engineering Chemistry Research, Chemical Engineering Journal,</p> <p>2. Председник или члан комисија за израду више од 20 завршних радова на мастер студијама и две на докторским студијама.</p> <p>3. Сарадник на домаћем научном пројекту Фазни прелази и карактеризација неорганских и органских система</p> <p>4. Настава из следећих предмета:</p> <ul style="list-style-type: none"> <li>- Методика наставе физике 2</li> <li>- Школска пракса из физике 2</li> <li>- Лабораторија физике у школи 2</li> <li>- Физика у школи 2</li> <li>- Савремена наставна средства 2</li> <li>- Педагошка истраживања у физици</li> <li>- Основи физике раста кристала</li> <li>- Изабрана поглавља дидактике физике</li> <li>- Рад са талентованим ученицима</li> <li>- Физика раста кристала</li> </ul>
9	Допринос академској и широј заједници	<p>1. Председник Комисије за такмичење ученика основних школа Друштва физичара Србије</p> <p>2. Аутор акредитованих семинара за наставнике физике</p> <p>3. Шеф Катедре за наставу физике</p>
10	Сарадња са другим високошколским, научноистраживачким установама, односно установама културе или уметности у земљи и иностранству	<p>1. Ангажовање у настави на Природноматематичком факултету Универзитета у Бања Луци</p> <p>2. Члан комисије за оцену докторске дисертације на Природноматематичком факултету у Сарајеву</p>

**UKUPNO 118**

***1. SYNTHESIS, CRYSTALLIZATION AND CHARACTERIZATION OF  $PbCo_2(PO_4)_2$  AND  $Pb_2Co(PO_4)_2$***   
***M.M. Mitrović, B.B. Žižić, M.M. Napijalo, M.L.J. Napijalo, J.R. Dojčilović and T.Pastor, Journal of Crystal Growth 64 (1983) 380-384.***

1. Recent Advances in Nonlinear Optical Phosphate Materials  
KONG Zhi-Guo;LIU Dong-Xue;SONG Mei-Yu;ZHANG Li-Yuan;FENG Si-Yang;XU Zhan-Lin, CHINESE JOURNAL OF STRUCTURAL CHEMISTRY Volume: 36 Issue: 11 Pages: 1837-1858 Published: NOV 15 2017

2. Syntheses, Crystal Structures and Luminescent Properties of Two New Heterometallic Phosphates:  $Sn_2Ge(PO_4)_2(OH)_2$  and  $Sn_2Mn(PO_4)_2$   
By: Song, Jun-Ling; Guo, Tian-Shuo; Shi, Zhong-Yu; et al.  
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***2. GROWTH RATE DISPERSION OF SMALL ROCHELLE SALT CRYSTALS***  
***M.M. Mitrović, Journal of Crystal Growth 85 (1987) 411-416.***

3. Crystal Growth Rate Dispersion versus Size-Dependent Crystal Growth: Appropriate Modeling for Crystallization Processes  
Srisanga, Sukanya; Flood, Adrian E.; Galbraith, Shaun C.; et al., CRYSTAL GROWTH & DESIGN Volume: 15 Issue: 5 Pages: 2330-2336, MAY 2015

***3. INFLUENCE OF MAGNETIC FIELD ON GROWTH RATE DISPERSION OF SMALL ROCHELLE SALT CRYSTALS***  
***M.M. Mitrović, B.B. Žižić and M.Lj. Napijalo, Journal of Crystal Growth 87 (1988) 439-445.***

4. Accelerated VGF-crystal growth of GaAs under traveling magnetic fields  
Dropka, N., Frank-Rotsch, C, (2013) Journal of Crystal Growth, 367, pp. 1-7.  
5. The Effect of Magnetic Field on Crystallization and some Properties of Silver Azide Crystals  
A.P. Rodzevich, L.V. Kuzmina, E.G. Gazenaur, E.V. Sugatov, V.I. Krashenin, Materials Science Forum 938:18-26, October 2018.  
6. Simulation of the Reactivity of Energy Materials in the Technosphere  
A P Rodzevich, L V Kuzmina, E.G. Gazenaur, V I Krashenin, IOP Conference Series Earth and Environmental Science 224:012018, DOI: 10.1088/1755-1315/224/1/012018, February 2019.

***4. THE INFLUENCE OF A MAGNETIC FIELD ON THE MOSAIC SPREAD AND GROWTH RATE OF SMALL ROCHELLE SALT CRYSTALS***  
***M.M. Mitrović, R.I. Ristić and I. Ćirić, Applied Physics A: Solids and Surfaces A51 (1990) 374-378.***

7. Crystal Growth Rate Dispersion versus Size-Dependent Crystal Growth: Appropriate Modeling for Crystallization Processes  
Srisanga, Sukanya; Flood, Adrian E.; Galbraith, Shaun C.; et al. CRYSTAL GROWTH & DESIGN Volume: 15 Issue: 5 Pages: 2330-2336, MAY 2015  
8. Superlong Salicylideneaniline Semiconductor Nanobelts Prepared by a Magnetic Nanoparticle-Assisted Self-Assembly Process for Luminescence Thermochromism  
By: Wu, Jian; Yang, Jinglei, ACS OMEGA Volume: 2 Issue: 5 Pages: 2264-2272 Published: MAY 2017

## **5. GROWTH RATE DISPERSION OF SMALL $MnCl_2 \cdot 4H_2O$ CRYSTAL**

### ***II. Growth in a magnetic field***

***M.M. Mitrović, Journal of Crystal Growth 112 (1991) 171-182.***

9. Synthesis of manganese oxide nanocrystal by ultrasonic bath: Effect of external magnetic field

Bastami, T.R., Entezari, M.H., (2012) Ultrasonics Sonochemistry, 19 (4), pp. 830-840.

## **6. THERMALLY INDUCED PHASE TRANSFORMATIONS OF 12-TUNGSTOPHOSPHORIC ACID 29-HYDRATES: SYNTHESIS AND CHARACTERIZATION OF $PW_8O_{26}$ -TYPE BRONZES**

***U.B. Mioč, R.Ž. Dimitrijević, M. Davidović, Z.P. Nedić, M.M. Mitrović and Ph. Colomban, Journal of Materials Science 29 (1994) 3705-3718.***

10. UV- $H_2O_2$  degradation of methyl orange catalysed by  $H_3PW_{12}O_{40}$ /activated clay

Wei, G., Zhang, L., Wei, T., Luo, Q., Tong, Z., (2012) Environmental Technology (United Kingdom), 33 (14), pp. 1589-1595.

11. Synthesis, crystal structure and conductive performance of tungstovanadophosphoric heteropoly acid  $H_4PW_{11}VO_{40} \cdot 8H_2O$

Tong, X., Tian, N., Zhu, W., Wu, Q., Cao, F., Yan, W., (2012) Journal of Alloys and Compounds, 544, pp. 37-41.

12. Effect of Al content on the gas-phase dehydration of glycerol over silica-alumina-supported silicotungstic acid catalysts

Kim, Y.T., You, S.J., Jung, K.-D., Park, E.D., (2012) Bulletin of the Korean Chemical Society, 33 (7), pp. 2369-2377.

13. Spectroscopic studies of sulfite-based polyoxometalates at high temperature and high pressure

Quesada Cabrera, R., Firth, S., Blackman, C.S., Long, D.-L., Cronin, L., McMillan, P.F., (2012) Journal of Solid State Chemistry, 186, pp. 171-176.

14. Aqua oxyhydroxycarbonate second phases at the surface of Ba/Sr-based proton conducting perovskites: A source of confusion in the understanding of proton conduction

Colomban, P., Tran, C., Zaafrani, O., Slodczyk, A., (2013) Journal of Raman Spectroscopy, 44 (2), pp. 312-320.

15. Advanced proton conducting membrane for ultra-high rate solid flexible electrochemical capacitors

Gao, H., Lian, K., (2012) Journal of Materials Chemistry, 22 (39), pp. 21272-21278.

16. Tungstophosphoric acid immobilized on ammonium Y and ZSM5 zeolites: Synthesis, characterization and catalytic evaluation

Marchena, C.L., Frenzel, R.A., Gomez, S., Pierella, L.B., Pizzio, L.R., (2013) Applied Catalysis B: Environmental, 130-131, pp. 187-196

17. Preparation and electrochemical performance of tungstovanadophosphoric heteropoly acid and its hybrid materials

Tong, X., Tian, N., Wu, W., Zhu, W., Wu, Q., Cao, F., Yan, W., Yaroslavlsev, A.B., (2013) Journal of Physical Chemistry C, 117 (7), pp. 3258-3263.

18. Effect of  $SiO_2$  on silicotungstic Acid- $H_3PO_4$ - poly(vinyl alcohol) electrolyte for electrochemical supercapacitors

Gao, H., Lian, K., (2013) Journal of the Electrochemical Society, 160 (3), pp. A505-A510.

20. Synthesis and characterization of acid silver salts of 12-tungstophosphoric acid

Holclajtner-Antunović, I.D., Popa, A., Bajuk-Bogdanović, D.V., Mentus, S., Nedić Vasiljević, B.M., Uskoković-Marković, S.M., (2013) Inorganica Chimica Acta, 407, pp. 197-203.

21. Proton and protonic species: The hidden face of solid state chemistry. How to measure H-content in materials?

Colomban, Ph., (2013) Fuel Cells, 13 (1), pp. 6-18.

22. Identification and characterisation of stable phases of silicotungstic acid,  $H_4SiW_{12}O_{40} \cdot nH_2O$

Berry, F.J., Derrick, G.R., Mortimer, M., (2014) Polyhedron, 68, pp. 17-22.

23. Reversible phase transformation-type electrolyte based on Dawson-type POM and simple quaternary ammonium salt

Wu, X., Tong, X., Li, Y., Wu, Q., Yan, W. (2014) Journal of Solid State Electrochemistry, 18 (1), pp. 279-283.

24. Syntheses and electrochemical properties of polyoxometalate salts with Dawson structure

- Tong, Xia; Zhu, Weiming; Zhu, Meiyi; et al. RUSSIAN JOURNAL OF ELECTROCHEMISTRY Volume: 50 Issue: 4 Pages: 398-401 Published: APR 2014
25. Reversible phase transformation-type layer shape electrolyte based on POM and quaternary ammonium salt  
Wu, Xuefei; Li, Yunyan; Wu, Qingyin; et al. FUNCTIONAL MATERIALS LETTERS Volume: 7 Issue: 2  
Article Number: 1450019 Published: APR 2014
26. Structural, morphological and catalytic characterization of neutral Ag salt of 12-tungstophosphoric acid:  
Influence of preparation conditions  
Holclajtner-Antunović, I., Bajuk-Bogdanović, D., Popa, A., (...), Mentus, S., Uskoković-Marković, S. (2015)  
Applied Surface Science 328, pp. 466-474
27. Tungstophosphoric acid heterogenized onto NH<sub>4</sub>ZSM5 as an efficient and recyclable catalyst for the photocatalytic degradation of dyes  
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