

НАСТАВНО-НАУЧНОМ ВЕЋУ
ФИЗИЧКОГ ФАКУЛТЕТА УНИВЕРЗИТЕТА У БЕОГРАДУ

Пошто смо на III седници Наставно-научног већа Физичког факултета Универзитета у Београду одређени за чланове Комисије за припрему извештаја по расписаном конкурс за избор једног РЕДОВНОГ ПРОФЕСОРА за научну област Физика кондензоване материје на Физичком факултету у Београду, подносимо следећи

РЕФЕРАТ

На конкурс за избор једног РЕДОВНОГ ПРОФЕСОРА за научну област Физика кондензоване материје на Физичком факултету у Београду, који је који је објављен 18. јануара 2012. године у ПОСЛОВИМА (број 448), додатку дневног листа "ДНАС", пријавио се кандидат др Мићо Митровић, ванредни професор и научни саветник Физичког факултета Универзитета у Београду.

1. Основни биографски подаци

Мићо Митровић је рођен 9.12.1953. године у селу Копанице, Орашје, Босна и Херцеговина. Основну школу је завршио у Копаницама и Орашју. Гимназију је завршио 1972. године у Орашју. Дипломирао је 1977. године на Природноматематичком факултету, одсек за физику и метеорологију, у Београду, на смеру експериментална физика. На истом факултету је 1981. године одбранио магистарски рад под називом "Синтеза, кристализација и физичке особине $\text{PbCo}_2(\text{PO}_4)_2$ и $\text{Pb}_2\text{Co}(\text{PO}_4)_2$ ", а 1989. године докторску дисертацију под називом "Дисперзија брзина раста малих кристала Рошелске соли у правцу [010] у присуству и одсуству магнетног поља ". Од 1977-1980. године је био запослен у Институту за физику на радном месту асистента приправника. Од 1980. године је запослен на Физичком факултету у Београду. Од 2002. године је у звању ванредног професора. У звање научни саветник изабран је 28.12.2009.године.

2. Наставна активност

Као ванредни професор на Физичком факултету у Београду успешно је држао наставу на различитим предметима. На основним студујама држи наставу из предмета Методика наставе физике и Наставна средства 2, на мастер студијама из предмета Савремене методе педагошких истраживања и Рад са талентованим ученицима, а на докторским студијама из предмета Физика раста кристала и Изабрана поглавља дидактике физике. Руководио је изработом већег броја дипломских радова, два магистарска рада и једног доктората. Био је члан великог броја комисија за преглед и оцену истих.

Аутор је уџбеника за предмет Методика наставе физике, под називом Методика наставе физике 1.

Објављивањем научног рада у часопису *American Journal of Physics*, високо рангираном часопису међу физичким педагошко-дидактичким часописима, показао је способност коришћења научних метода у педагошким истраживањима.

У оквиру Друштва физичара Србије од 1989. године руководи такмичењима ученика основних и средњих школа из физике, чији квалитет показују завидни успеси наших ученика на међународним олимпијадама. Тиме значајно доприноси развоју научног подмлатка у земљи.

Активно је учествовао у перманентном усавршавању наставника на републичким семинарима за наставнике физике, у организацији Друштва физичара Србије, као и руковођењем од стране Министарства просвете акредитованим семинарима за усавршавање наставника.

3. Научна активност

Публикације

Мићо Митровић се бави научноистраживачким радом у области физике чврстог стања, посебно у области физике раста кристала. Објавио је 34 значајна научна рада. Од тога је 21 рад из категорије $if > 1$ и 1 рад са $if > 0.5$ - педагошки часопис

12 радова из категорије међународних часописа
2 монографије
1 уџбеник
22 рада у зборницима међународних конференција
2 уводна предавања на скупу националног значаја,
34 рада у зборницима домаћих конференција

Првопотписани је аутор у 21-ном од тих радова, а самостални аутор 6 радова.

Цитирана су му 27 радова 205 пута, без аутоцитата било које врсте.

Повремено је рецензент реномираних међународних часописа Journal of Crystal Growth, Applied Physics, Chemical Engineering Journal, Industrial and Engineering Chemistry Research, Crystal Research and Technology, и др.

Учешће у научним пројектима

Успешно је руководио задацима у оквиру неколико научноистраживачких пројеката Министарства за науку. Руководио је пројектима: Физика раста кристала и Фазни прелази и карактеризација неорганских и органских система. Тренутно је ангажован на реализацији пројекта Фазни прелази и карактеризација неорганских и органских система.

Кратак приказ научноистраживачког рада кроз резултате публиковане у међународним часописима

Резултати проучавања процеса кристализације и неких физичких особина новог материјала, олово кобалт фосфата, су приказани у раду [А-1]. У радовима [А-2] до [А-4] и [А-7] су представљени резултати проучавања кинетике раста кристала Рошелске соли из водених раствора, док су резултати сличних истраживања на кристалима $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$ представљени у радовима [А-5] до [А-7]. У овим

радовима је проучаван утицај различитих параметара на брзине раста кристала, посебно на дисперзије ових брзина. Резултати су дискутовани у складу са постојећим теоријама раста кристала. Утицај магнетног поља на раст кристала проучаван је у радовима [A-3] , [A-4] и [A-6]. Показано је да магнетно поље смањује брзину раста кристала и мења облик дисперзије брзина.

Зависност брзине раста кристала од напрезања кристалне решетке (мозаичности) је показана у раду [A-4]. Показано је да дефектнији кристали расту спорије од мање дефектних, под истим спољашњим условима, што је супротно очекивањима класичне дислокационе теорије раста кристала. Резултати овог истраживања су постали један од основа за постављање нове теорије раста кристала. У истом раду је показано да се утицај магнетног поља на брзину раста кристала одвија преко утицаја на мозаичност. У раду [A-7] је показано под којим условима брзина раста кристала зависи од њихове почетне величине. У раду [A-9] је показано да предисторија процеса кристализације значајно утиче брзину раста кристала Рошелске соли из раствора.

Резултати проучавања дисперзија брзина раста кристала, као и различити начини утицаја на њих су приказани у радовима [A-14], [A-16] до [A-19] и [A-33] и [A-34]. Показано је да максимуми дисперзија брзина раста одговарају одређеним активностима доминантних дислокационих група, а да ширине максимума зависе од њихове конфигурације.

У раду [A-16] показано је да у оквиру појединих максимума брзина раста кристала не зависи од њихове величине, а да је зависност средњих брзина раста од средњих величина кристала, који припадају појединим максимумима, линеарна. Анализом група кристала које припадају појединачним максимумима дистрибуција брзина, показано је да брзине раста кристала у оквиру појединачних група не зависе од одговарајућих почетних величина. Аритметичка средина брзина раста у оквиру једне групе линеарно зависи од аритметичке средине одговарајућих почетних величина кристала. У раду [A-17] је показано да нема суштинске разлике између CCG, SDG и RF модела раста кристала, који се у литератури често посебно третирају. У раду [A-34] је проучаван утицај растварања и рефацетирања кристала. Претпостављено је уједначавање почетних услова раста појединачних кристала у

једном експерименту, чиме се остварују бољи услови за проучавање статистичких процеса раста кристала. У раду [A-19] процењена је вредност тродимензионалног критичног нуклеуса неопходног да би кристал могао да расте.

У радовима [A-20] до [A-22] су приказани резултати проучавања тзв. инхерентних промена брзина раста малих кристала натријум хлората, KDP и KNT кристала из водених раствора.

- резултатаи истраживања показују да постоје тзв. инхерентне промене брзина раста малих кристала натријум хлората, KDP и KNT кристала. Овакве промене не зависе од спољашњих макроскопских услова раста и најизраженије су у првих 2-4 сата раста у току којих највећи број проучаваних кристала смањује брзину раста. Након овог периода стабилизације брзине, кристали показују тенденцију њеног уједначавања што има одређене последице и на дисперзије брзина чија се временска еволуција може јасно пратити. Показано је да инхерентне промене брзина раста кристала могу да маскирају утицаје спољашњих фактора (нпр. електричног или магнетног поља, промене пресићења итд.) те стога морају бити узете у обзир пр проучавању оваквих ефеката на раст кристала.

- експериментално је потврђена је константност стабилних брзина раста малих кристала натријум хлорара.

Резултати проучавања кристализације и фазних трансформација 29-хидратне 12-тунсто-фосфорне киселине и њених соли коришћењем скенинг електронске микроскопије, DTA, TGA, DSC, XRDP, IR и Раман спектроскопије приказани су у радовима [A-12], [A-13], [A-15], [A-23] и [A-32]. У раду [A-10] су приказани резултати скенинг електронског проучавања формирања дијаманту сличних филмова. Резултати проучавања кинетике кристализације, као и фазних трансформација алумосиликатних стакала приказани су у радовима [A-24], [A-27] до [A-29] и [A-31], а проучавања температурских трансформација јонски измењених зеолита у раду [A-25]. У раду [A-26] су представљени резултати проучавања утицаја *TEA* CO₂ ласерског зрачења на површину челика.

Могућности коришћења уређаја за научне експерименте у наставном процесу проучаване су у раду [A-8].

5. Spisak publikacija

A Радови у водећим међународним часописима (импакт фактор већи од 1)

[A-1] SYNTHESIS, CRYSTALLIZATION AND CHARACTERIZATION OF $\text{PbCo}_2(\text{PO}_4)_2$ AND $\text{Pb}_2\text{Co}(\text{PO}_4)_2$

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[A-2]GROWTH RATE DISPERSION OF SMALL ROCHELLE SALT CRYSTALS

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[A-3]INFLUENCE OF MAGNETIC FIELD ON GROWTH RATE DISPERSION OF SMALL ROCHELLE SALT CRYSTALS

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[A-13] THERMALLY INDUCED CONVERSION OF OF Sr-EXCHANGED LTA - AND FAU - FRAMEWORK ZEOLITES. SYNTHESIS, CHARACTERIZATION AND POLYMORPHISM OF ORDERED AND DISORDERED $\text{Sr}_{1-x}\text{Al}_{2-2x}\text{Si}_{2-2x}\text{O}_8$ ($x=0; 0.15$), DIPHYLLOSILICATE, AND FELDSPAR PHASES

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Напомена: Рад бр 8 је у педагошком часопису, импакт фактора 0.9

Radovi u međunarodnim časopisima

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ЗАКЉУЧАК

На основу изложеног сматрамо да доктор физичких наука Мићо Митровић поседује добре способности за педагошки рад и да је успешан у научноистраживачком раду. **Зато предлагемо Наставно-научном већу Физичког факултета да овај Извештај прихвати као позитивну оцену предлога за избор и изабере др Мићу Митровића у звање редовног професора за ужу научу област Физика кондензоване материје.**

У Београду,

Др Јаблан Дојчиловић,
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