europass

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RADNO ISKUSTVO

17/02/2022 – TRENUTAČNO – SPLIT, Hrvatska

IZVANREDNA PROFESORICA – SVEUČILIŠTE U SPLITU, PRIRODOSLOVNO-MATEMATIČKI FAKULTET

Područje **prirodnih znanosti,** polje **fizika**

- Statistička mehanika
- Fizika kondenzirane materije (tekuće stanje)
- Računalne simulacije kondenzirane materije
- Teorija integralnih jednadžbi

Nastavni kolegiji

- Dinamika atoma u plinovima i tekućinama (1. god. dipl, studija Računarska fizika, 5 ECTS)
- Temeljni pojmovi u fizici (1. god. preddipl. studija Fizika, Fizika-Matematika, 3 ECTS)
- Znanstvena komunikacija (1. god. dipl. studija Fizike, 2 ECTS)

RUĐERA BOŠKOVIĆA 33, 21000, SPLIT, Hrvatska

25/05/2016 – 16/02/2022 – SPLIT, Hrvatska

DOCENTICA – SVEUČILIŠTE U SPLITU, PRIRODOSLOVNO-MATEMATIČKI FAKULTET

01/12/2013 – 24/05/2016 – SPLIT, Hrvatska

VIŠA ASISTENTICA – SVEUČILIŠTE U SPLITU, PRIRODOSLOVNO-MATEMATIČKI FAKULTET

RUĐERA BOŠKOVIĆA 33, 21000, SPLIT, Hrvatska

01/07/2009 – 30/11/2013 – SPLIT, Hrvatska

ZNANSTVENA NOVAKINJA NA SVEUČILIŠTU – SVEUČILIŠTE U SPLITU, PRIRODOSLOVNO-MATEMATIČKI FAKULTET

01/05/2010 – 01/06/2010 – Salzburg, Austrija

STRUČNA SURADNICA NA ZNANSTVENOM PROJEKTU – UNIVERSITÄT SALZBURG, NATURWISSENSCHAFTLICHE FAKULTÄT, FACHBEREICH MATERIALFORSCHUNG UND PHYSIK

- Mjerenje viskoznosti, indeksa refrakcije i gustoće vodenih otopina alkohola
- Mjerenje brzine zvuka metodom Brillouinovog raspršenja svjetlosti u vodenim otopinama alkohola

01/02/2010 – 01/03/2010 – Salzburg, Austrija

STRUČNA SURADNICA NA ZNANSTVENOM PROJEKTU – UNIVERSITÄT SALZBURG, NATURWISSENSCHAFTLICHE FAKULTÄT, FACHBEREICH MATERIALFORSCHUNG UND PHYSIK

- Mjerenje viskoznosti, indeksa refrakcije i gustoće vodenih otopina alkohola
- Mjerenje brzine zvuka metodom Brillouinovog raspršenja svjetlosti u vodenim otopinama alkohola

OBRAZOVANJE I OSPOSOBLJAVANJE

01/10/2010 – 23/10/2013 – LPTMC, Tour 12-13/13-23, Boîte 121, Sorbonne Université, 4, Place Jussieu, Paris Cedex 5, Francuska

DOKTORICA ZNANOSTI – Universite Paris VI

très honorable | https://www.sorbonne-universite.fr/

01/10/2009 – 23/10/2013 – Ruđera Boškovića 33, Split, Hrvatska

DOKTORICA ZNANOSTI – Sveučilište u Splitu, Prirodoslovno-matematički fakultet

Područja obrazovanja

- Prirodne znanosti, matematika i statistika : *Prirodne znanosti, matematika i statistika, nije podrobnije definirano*

https://www.pmfst.unist.hr/

01/10/2004 – 05/06/2009 – Ruđera Boškovića 33, Split, Hrvatska

PROFESORICA MATEMATIKE I FIZIKE – Sveučilište u Splitu, Prirodoslovno-matematički fakultet

JEZIČNE VJEŠTINE

Materinski jezik/jezici: **HRVATSKI**

Drugi jezici:

	RAZUMIJEVANJE		GOVOR		PISANJE
	Slušanje	Čitanje	Govorna produkcija	Govorna interakcija	
ENGLESKI	C1	C1	C1	C1	C1
FRANCUSKI	B1	B1	B1	B1	B1
NJEMAČKI	A2	A2	A2	A2	A2

Razine: A1 i A2: temeljni korisnik; B1 i B2: samostalni korisnik; C1 i C2: iskusni korisnik

DIGITALNE VJEŠTINE

Računalne vještine i programiranje

Windows | Rad u programskom paketu MATLAB | Iskustvo u programiranju Fortran programskim jezikom | Gnuplot | Programiranje (c++, python) | Linux Ubuntu | Napredno poznavanje HTML-a,CSS-a,JavaScript | GROMACS package for Molecular Dynamics simulations | Linux/Bash | Microsoft Word | Microsoft Excel | Komunikacijski programi (Skype Zoom TeamViewer) | Izvrsno sluenje MS Office paketom (Word Excel PowerPoint)

Komunikacijske vještine

Timski rad | Drutvene mree (razliite platforme) | Izrada edukativnih videa

PROJEKTI

10/09/2018 – TRENUTAČNO
HRZZ-UIP-2017-05-1863, Dinamika u sustavima u kojima postoji mikro-segregacija

http://projekti.pmfst.unist.hr/dinamis/
Voditeljica

01/10/2019 – TRENUTAČNO
The European University of the Seas: Research Excellence

Suradnica, voditeljica nastavnog modula

15/09/2014 – 14/12/2017
HRZZ-UIP-2013-11-4514, Formacija i destrukcija domena u vodenim otopinama

https://pdb.irb.hr/project/irb:003192
Znanstvena suradnica, voditeljica projekta izv. prof. dr. sc. Larisa Zoranić

15/09/2014 – 14/12/2017
HRZZ-IP-2013-11-8481, Biofizikalni dizajn antimikrobnih peptida i inovativni molekularni deskriptori – BioAmpMode

https://pdb.irb.hr/project/3162
Znanstvena suradnica, voditelj projekta prof. dr. sc. Damir Vukičević

01/10/2007 – 01/10/2014
MZO-177-1770508-0480, Struktura, međudjelovanja i prijenos u vodenim otopinama s primjenama

https://pdb.irb.hr/project/irb:002695
Znanstvena novakinja, voditelj projekta prof. dr. sc. Franjo Sokolić

KONFERENCIJE I SEMINARI

20/09/2021 – 22/09/2021 – Dijon, Francuska
CECAM flagship workshop "Recent progress in the statistical mechanics of solutions through Kirkwood-Buff integrals and related approaches"

Održala predavanje "Do the Kirkwood-Buff Integrals represent a signature of the microscopic state of mixtures?"
https://www.cecam.org/workshop-details/1064

08/09/2021 – 10/09/2021 – Cambridge, UK
5th Edwards Symposium – New Directions in Soft Matter

Prezentirala poster "Dynamics of urea-water mixtures studied by molecular dynamics simulation"
https://gateway.newton.ac.uk/node/9995/done?sid=6291&token=6eebfc3d9e953331d8de8b5c3665b113

19/07/2021 – 23/07/2021 – Prag, Češka
11th Liquid Matter Conference - LMC Virtually

Prezentirala poster "Vibrational, rotational and hydrogen bond dynamics of ethanol molecules in binary aqueous and non-aqueous mixtures"
https://www.lmc2020.cz/

08/09/2019 – 13/09/2019 – Kutná Hora, Češka
Joint EMLG /JMLG conference 2019

Održala predavanje "The role of many-body correlations in liquids: simple disorder versus complex disorder"

10/09/2017 – 14/09/2017 – Beč, Austrija
Joint EMLG/JMLG meeting 2017

Prezentirala poster "Dynamics of ethanol-hexane and ethanol-water mixtures studied by computer simulations"

11/09/2016 – 16/09/2016 – Chania, Kreta, Grčka
Joint EMLG/JMLG Annual Meeting 2016

Prezentirala poster "Complex disorder in binary mixtures of ethanol with water and alkanes"
https://www.twirpx.com/file/2129184/

05/10/2015 – 07/10/2015 – Umag, Hrvatska
Deveti znanstveni sastanak Hrvatskog fizikalnog društva

Održala predavanje "Evaluacija strukturnih korelacija u realnim tekućinama pomoću metode Integralnih Jednadžbi"
http://www.hfd.hr/zs/zs2015/

27/08/2012 – 31/08/2012 – Montpellier, Francuska
13eme Journees de la Matiere Condensee

Održala predavanje "Fluctuation and Microheterogeneity in Aqueous Mixtures"

09/08/2010 – 13/08/2010 – Split, Hrvatska
Australia-Croatia Workshop on Antimicrobial Peptides and Summer School in Biophysics PhD programme

Prezentirala poster "Microheterogenity of alcohol-water mixtures: experimental and simulation study"

08/10/2009 – 11/10/2009 – Primošten, Hrvatska
6. znanstveni sastanak HFD-a

Prezentirala poster "Mali miješani klasteri helija i spin-polariziranog tricija"
http://www.hfd.hr/arhiva_zs/2009/

VJEŠTINE UPRAVLJANJA I RUKOVOĐENJA

Voditeljica projekta Hrvatske Zaklade za Znanost (2018.-)

Uspostavni istraživački projekt, UIP-2017-05-1863, Dinamika u sustavima u kojima postoji mikro-segregacija

Predsjednica udruge "Fizikalno Društvo - Split" (2017.-2019.)

Blagajnica udruge "Fizikalno Društvo - Split" (2010.-2012.)

POČASTI I NAGRADE

01/06/2010
Stipendija Vlade Francuske Republike za dvojni doktorat (cotutelle) – Veleposlanstvo Francuske Republike

ORGANIZACIJSKE VJEŠTINE

Organizacija ciklusa predavanja "Zašto studirati fiziku?" (10.03.2017.-03.05.2017.)

https://www.srednja.hr/svastara/ovo-predavanje-dat-ce-vam-odgovor-na-pitanje-zasto-studirati-fiziku/

The Sixth PHYSICS & PHILOSOPHY Meeting in Conjunction with the Summer School (2017.)

Članica organizacijskog odbora
https://mapmf.pmfst.unist.hr/~sokolic/doku.php?id=2017:start2017

MREŽE I ČLANSTVA

01/10/2018 – TRENUTAČNO
Administratorica facebook stranice Odjel za fiziku, PMFST

https://www.facebook.com/fizpmfst

01/10/2009 – TRENUTAČNO
Članica udruge Fizikalno Društvo - Split

01/10/2019 – 01/10/2021
Članica Fakultetskog Vijeća Prirodoslovno-matematičkog fakulteta u Splitu

01/10/2016 – 01/10/2018
Članica Odbora za unaprjeđenje kvalitete Prirodoslovno-matematičkog fakulteta u Splitu

POPULARIZACIJA ZNANOSTI

10/05/2021 – 15/05/2021
Festival znanosti 2021: Žene majke nobelovke

https://www.youtube.com/watch?v=RCtKq9ZpUTY&t=18s

08/06/2019 – 08/06/2019
Fešta o'fizike: Bozoni

https://www.feral.news/sutra-festa-o-fizike/

28/02/2019 – 28/02/2019

Dan otvorenih vrata PMF-a: Radionica simulacija Molekularne Dinamike

https://www.facebook.com/fizpmfst/photos/649171739217024

08/04/2019 – 13/04/2019

Festival znanosti 2019: Fizika na slikarskom platnu

http://www.festivalznanosti.hr/2019/split/?eventId=771

22/02/2019 – 22/02/2019

Mali znanstvenici: posjet dječjem vrtiću Latica

https://www.facebook.com/fizikalnodrustvosplit/photos/2399274803439412

16/04/2018 – 21/04/2018

Festival znanosti 2018: Vremenske korelacijske funkcije - koliko traje sjećanje molekule vode

https://www.pmfst.unist.hr/znanost/wp-content/uploads/sites/29/2018/03/pmfst_popularizacija_2017.pdf

- **PUBLIKACIJE**

Lovrinčević, Bernarda*; Jukić, Ivo; Požar, Martina, An overview on the dynamics in aqueous mixtures of lower alcohols, Springer

Poglavlje u knjizi: Molecular Basics of Liquids and Liquid-Based Materials
https://www.springer.com/gp/book/9789811653940#aboutBook – 2021

Koljanin, Ivan; Požar, Martina; Lovrinčević, Bernarda, Structure and dynamics of liquid linear and cyclic alkanes: A molecular dynamics study, Fluid Ph. Equilibria 550 (2021) 113237)

https://www.sciencedirect.com/science/article/abs/pii/S0378381221003009 – 2021

Jukić, Ivo; Požar, Martina; Lovrinčević, Bernarda; Perera, Aurélien, Universal features in the lifetime distribution of clusters in hydrogen-bonding liquids, Phys. Chem. Chem. Phys., 23 (2021), 35; 19537-19546

https://pubs.rsc.org/en/Content/ArticleLanding/2021/CP/D1CP02027G – 2021

Jukić, Ivo; Požar, Martina; Lovrinčević, Bernarda*, Comparative analysis of ethanol dynamics in aqueous and non-aqueous solutions, Phys. Chem. Chem. Phys., 22 (2020), 41; 23856-23868

https://pubs.rsc.org/en/content/articlepdf/2020/cp/d0cp03160g – 2020

Požar, Martina; Jukić, Ivo; Lovrinčević, Bernarda, Thermodynamic, structural and dynamic properties of selected non-associative neat liquids, J. Phys. Condens. Matter, 32 (2020), 40; 405101, 12

https://iopscience.iop.org/article/10.1088/1361-648X/ab935d/pdf – 2020

Lovrinčević, Bernarda*; Požar, Martina; Balić, Marijana, Dynamics of urea-water mixtures studied by molecular dynamics simulation, J. Mol. Liq., 300 (2020), 112268, 8

https://www.sciencedirect.com/science/article/abs/pii/S0167732219344526 – 2020

Lovrinčević, Bernarda; Bella, Adrien; Le Tenoux-Rachidi, Isham; Požar, Martina; Sokolić, Franjo; Perera, Aurélien, Methanol-ethanol "ideal" mixtures as a test ground for the computation of Kirkwood-Buff integrals, J. Mol. Liq., 293 (2019), 111447, 9

https://www.sciencedirect.com/science/article/abs/pii/S0167732219330302 – 2019

Perera, Aurelien; Lovrinčević, Bernarda, A comparative study of aqueous DMSO mixtures by computer simulations and integral equation theories, Mol. Phys., 116 (2018), 21-22; 3311-3322

https://www.tandfonline.com/doi/full/10.1080/00268976.2018.1483040 – 2018

Požar, Martina; Kerasidou, Ariadni; Lovrinčević, Bernarda; Zoranić, Larisa; Mijaković, Marijana; Primorac, Tomislav; Sokolić, Franjo; Teboul, Victor; Perera, Aurélien, The microscopic structure of cold aqueous methanol mixtures, J. Chem. Phys., 145 (2016), 144502, 10

https://aip.scitation.org/doi/10.1063/1.4964487 – 2016

Požar, Martina; Lovrinčević, Bernarda; Zoranić, Larisa; Primorac, Tomislav; Sokolić, Franjo; Perera, Aurélien, Micro-heterogeneity versus clustering in binary mixtures of ethanol with water or alkanes, Phys. Chem. Chem. Phys., 18 (2016), 34; 23971-23979

https://pubs.rsc.org/en/content/articlepdf/2016/cp/c6cp04676b – 2016

Požar, Martina; Lovrinčević, Bernarda; Zoranić, Larisa; Mijaković, Marijana; Sokolić, Franjo; Perera, Aurélien, A re-appraisal of the concept of ideal mixtures through a computer simulation study of the methanol-ethanol mixtures, J. Chem. Phys., 145 (2016), 6; 064509, 10

https://aip.scitation.org/doi/full/10.1063/1.4960435 – 2016

Požar, Martina; Seguier, Jean-Baptiste; Guerche, Jonas; Mazighi, Redha; Zoranić, Larisa; Mijaković, Marijana; Kežić- Lovrinčević, Bernarda; Sokolić, Franjo; Perera, Aurélien, Simple and complex disorder in binary mixtures with benzene as a common solvent, Phys. Chem. Chem. Phys., 17 (2015), 15; 9885-9898

https://pubs.rsc.org/en/content/articlelanding/2015/cp/c4cp05970k/unauth#!divAbstract – 2015

Kežić-Lovrinčević, Bernarda; Dartois, Stephane; Perera, Aurelien, Repulsive core-soft models for binary aqueous mixtures, Mol. Phys., 113 (2015), 9-10; 1108-1118

https://www.tandfonline.com/doi/full/10.1080/00268976.2015.1005189 – 2015

Mijaković, Marijana; Polok, Kamil; Kežić, Bernarda; Sokolić, Franjo; Perera, Aurelien; Zoranić, Larisa, A comparison of force fields for ethanol-water mixtures, Mol. Sim., 41 (2015), 9; 699-712

https://www.tandfonline.com/doi/full/10.1080/08927022.2014.923567#.VIg_8EkwzuQ – 2015

Perera, Aurelien; Mazighi, Redha; Kežić- Lovrinčević, Bernarda; Pham, N.-P., Mixture models with weak micro-heterogeneity, Mol. Phys., 112 (2014), 9-10; 1262-1272

https://www.tandfonline.com/doi/full/10.1080/00268976.2014.889859 – 2014

Perera, Aurelien; Kežić, Bernarda, Fluctuations and micro-heterogeneity in mixtures of complex liquids, Faraday Discuss. 167 (2013), 145-158

https://pubs.rsc.org/en/content/articlelanding/2013/fd/c3fd00072a#!divAbstract – 2013

Kežić, Bernarda; Mazighi, Reda; Perera Aurelien, A model for molecular emulsions : Water and "weak water" mixtures, Physica A, 392 (2013), 4; 567-582

https://www.sciencedirect.com/science/article/abs/pii/S0378437112009235?via=ihub – 2013

Kežić, Bernarda; Perera, Aurelien, Revisiting aqueous-acetone mixtures through the concept of molecular emulsions, J. Chem. Phys., 137 (2012), 134502, 6

https://aip.scitation.org/doi/10.1063/1.4755816 – 2012

Perera, Aurelien; Mazighi, Redha; Kežić, Bernarda, Fluctuations and micro-heterogeneity in aqueous mixtures, J. Chem. Phys., 136 (2012), 174516, 10

https://aip.scitation.org/doi/10.1063/1.4707745 – 2012

Kežić, Bernarda; Perera, Aurelien, Aqueous tert-butanol mixtures: A model for molecular-emulsions, J. Chem. Phys., 137 (2012), 014501, 12

https://aip.scitation.org/doi/10.1063/1.4730524 – 2012

Asenbaum, Augustinus; Pruner, Cristian; Emmerich, Wilhelm; Mijaković, Marijana; Zoranić, Larisa; Sokolić, Franjo; Kežić, Bernarda; Perera, Aurelien, Structural changes in ethanol–water mixtures: ultrasonics, Brillouin scattering and molecular dynamics studies, Vibr. Spect., 60 (2012), 102-106

https://www.sciencedirect.com/science/article/abs/pii/S0924203111001639 – 2012

Perera Aurelien, Kežić Bernarda, Sokolić Franjo, Zoranić Larisa, Micro-Heterogeneity in Complex Liquids, InTech. (2012) 193–220

Poglavlje u knjizi: Molecular Dynamics - Studies of Synthetic and Biological Macromolecules
https://books.google.hr/books?hl=hr&lr=&id=tgOaDwAAQBAJ&oi=fnd&pg=PA193&ots=bfthL6yNAI&sig=iOVsaEpk_2i9xy1HClpbMP8sbjo&redir_esc=y#v=onepage&q&f=false – 2012

Kežić, Bernarda; Perera, Aurélien Towards a more accurate reference interaction site model integral equation theory for molecular liquids, J. Chem. Phys., 135 (2011), 234104, 11

https://aip.scitation.org/doi/10.1063/1.3666006 – 2011

Mijaković, Marijana; Kežić, Bernarda; Zoranić, Larisa; Sokolić, Franjo; Asenbaum, Augustinus, Pruner, Cristian; Emmerich, Wilhelm; Perera, Aurelien Ethanol–water mixtures : Ultrasonic, Brillouin scattering and Molecular Dynamics study, J. Mol. Liq., 164 (2011), 1-2; 66-73

https://www.sciencedirect.com/science/article/abs/pii/S0167732211002145?via=ihub – 2011

Stipanović, Petar; Vranješ Markić, Leandra; Boronat, Jordi; Kezić, Bernarda Ground state of small mixed helium and spin- polarized tritium clusters : A quantum Monte Carlo study, J. Chem. Phys., 134 (2011), 5; 054509, 8

https://aip.scitation.org/doi/10.1063/1.3530837 – 2011