

PERSONAL INFORMATION



Ivna Kavre Piltaver

📍 University of Rijeka, Faculty of Physics and Center for micro- and nanosciences and technology, Radmile Matejčić 2 , 51 000 Rijeka, Hrvatska

☎ +385 51 584 618 📠 +385 91 535 62 87

✉ ivna.kavre@uniri.hr

<https://www.phy.uniri.hr/hr/djelatnici/28-hr/djelatnici/717-ivna-kavre-piltaver.html>

Date of birth 28/09/1986 | **Citizenship** Croatian

WORKING EXPERIENCE

November 2017 -

Assistant professor

Faculty of Physics and Center for micro- and nanosciences and technology, University of Rijeka, Croatia

Teaching and scientific activities

(Note: break from 29th of March 2018 to 20th of November 2019 due to complications in pregnancy and maternity and parental leave and from 16th of September 2020 to 24th of October 2021 due to maternity and parental leave)

(Head of the Laboratory for Scanning Electron Microscopy)

January 2015 – November 2017

Postdoctoral researcher

University of Rijeka, Department of Physics and Center for micro- and nanosciences and technology, Rijeka, Croatia

Teaching and scientific activities

November 2013 – June 2014

Teaching assistant

University of Rijeka, Department of Physics, Croatia

Teaching and scientific activities

October 2010 – October 2013

PhD student, Young researcher

Faculty of Mathematics and Physics, University of Ljubljana, Slovenia. Part of the COMPLONDS project

Scientific activities

September 2009 – June 2010

Teacher

Italian elementary school „Gelsi“, Rijeka, Croatia

Teaching physics

EDUCATION

October 2010 – September 2014

Doctor of science, field: Physics

Faculty of Mathematics and Physics, University of Ljubljana, Slovenia

Title of the PhD thesis: „Beyond hard-walled spherical colloids“, COMPLOIDS, Initial Training Network Marie Curie

September 2008 – September 2010

Master of education in Physics and Mathematics

Department of Physics, University of Rijeka, Croatia

Title of the thesis: „Synchrotron radiation and its application in the investigation of boron nitride“. The measurements were done at National Synchrotron Radiation Research Center in Hsinchu City, Taiwan

September 2005 – September 2008

Bachelor of Physics

Department of Physics, University of Rijeka, Croatia

Title of the thesis: „Transformator“

September 2001 – June 2005

High school

High school in Italian language, LICEO, Rijeka, Croatia

PERSONAL SKILLS

Technical skills

Experimental physicist with operational experience in a number of techniques:

- Scanning Electron Microscopy (SEM),
- Dynamic Secondary Ion Mass Spectrometry (SIMS) and static-SIMS of solid state materials and devices,
- X-ray Photoelectron Spectroscopy (XPS),
- Near Edge X-ray Absorption Fine Structure Spectroscopy (NEXAFS),
- Atomic Layer Deposition technique (ALD),
- Optical tweezers,
- Photolithography and soft lithography methods,
- Atomic Force Microscopy (AFM)

Foreign languages

| | UNDERSTANDING | | SPEAKING | | WRITING |
|-----------|---------------|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| Italian | C2 | C2 | C2 | C2 | C2 |
| English | C1 | C1 | B2/C1 | B2/C1 | C1 |
| Slovenian | C2 | C2 | C1 | C1 | C1 |
| French | A1 | A1 | A1 | A1 | A1 |

Computer skills

- Writing programs: Microsoft Word, LaTeX
- Programs for creating presentations: Microsoft Power Point
- Data processing: Origin, Excel, Kaleida, Geogebra, Mathematica (basic), Python (basic), Unifit

Professional skills

- Experience in teaching and working with students
- Attended seminar “Oral scientific presentations”, University of Vienna, Vienna, Austria (2011.)

Organizational/managerial skills ▪ Head of the Laboratory for Scanning Electron Microscopy (17th of January 2018 – 17th of January 2021)

Driving licence ▪ B category

PROFESSIONAL DEVELOPMENT

Nov 18 – Nov 24 2010 Seminar: Colloidal dispersion rheology, Heraklion, Greece
 May 30 – Jun 3 2011 Seminar: Glass forming systems, Edinburgh, Scotland
 May 30 – Jun 3 2011 Seminar: Confocal imaging and flow, Edinburgh, Scotland
 Sep 11 – Sep 12 2011 Seminar: Complex fluid flow in porous media, Vienna, Austria
 Sep 13 – Sep 14 2011 Seminar: Oral scientific presentations, Vienna, Austria
 Dec 5 – Dec 9 2011 Seminar: Observation techniques for complex fluids, Bordeaux, France
 Dec 5 – Dec 9 2011 Seminar: Microfluidics, Bordeaux, France
 May 29 2012 Seminar: English language, scientific writing, Edinburgh, Scotland
 Jul 3 – Jul 13 2012 Summer school: COMPLOIDS Summer School, Physics of complex colloids, Varenna, Italy
 May 14 2013 Seminar: Data visualization, Ljubljana, Slovenia
 Sep 7 – Oct 23 2015 Training: Scanning Electron Microscope (SEM), Ljubljana, Slovenia (SIZIF project)
 Aug 26 2016 Training at EMC2016 congress in Lyon, France, HYPERSpy
 Sep 21 – Sep 22 2017 Training Atomic Layer Deposition: Fundamentals and Applications, Department of Physics, University of Rijeka

SCIENTIFIC ACTIVITY

Awards

- Rectors' award (2010)
- Best paper award of the Department of physics, University of Rijeka (2018)
 I. Kavre Piltaver, R. Peter, I. Šarić, K. Salamon, I. Jelovica Badovinac, K. Koshmak, S. Nannarone, I. Delač Marion, M. Petravić, Controlling the grain size of polycrystalline TiO₂ films grown by atomic layer deposition, *Appl. Surf. Sci.* 419 (2017) 564-572.

Publications

Original scientific papers published in CC journals

- 1) M. Petravac, R. Peter, **I. Kavre**, L.H. Li, Y. Chen, L.-J. Fan, Y.-W. Yang, Decoration of nitrogen vacancies by oxygen atoms in boron nitride nanotubes, *Phys. Chem. Chem. Phys.* 12 (2010) 15349-15353. (Q1)
- 2) M. Petravac, M. Varasanec, R. Peter, **I. Kavre**, M. Metikos-Hukovic, Y.-W. Yang, Electronic structure of nitinol surfaces oxidized by low-energy ion bombardment, *J. Appl. Phys.* 115 (2014) 243703. (Q1)
- 3) **I. Kavre**, G. Kostevc, S. Kralj, A. Vilfan, D. Babič, Fabrication of Magneto-Responsive Microgears Based on Magnetic Nanoparticles Embedded PDMS, *RSC Adv.* 4 (2014) 38316-38322. (Q1)
- 4) **I. Kavre**, A. Vilfan, D. Babič, Hydrodynamic synchronization of autonomously oscillating optically trapped particles, *Phys. Rev. E* 91 (2015) 031002. (Q1)
- 5) I. Saric, R. Peter, **I. Kavre**, I. Jelovica Badovinac, M. Petravac, Oxidation of nickel surfaces by low energy ion bombardment, *Nucl. Instrum. Meth. B* 371 (2016) 286-289. (Q2)
- 6) I. Saric, R. Peter, **I. Kavre Piltaver**, I. Jelovica Badovinac, K. Salamon, M. Petravac, Residual chlorine in TiO₂ films grown at low temperatures by plasma enhanced atomic layer deposition, *Thin Solid Films* 628 (2017) 142-147. (Q1)
- 7) **I. Kavre Piltaver**, R. Peter, I. Šarić, K. Salamon, I. Jelovica Badovinac, K. Koshmak, S. Nannarone, I. Delač Marion, M. Petravić, Controlling the grain

- size of polycrystalline TiO₂ films grown by atomic layer deposition, *Appl. Surf. Sci.* 419 (2017) 564-572. (Q1)
- 8) R. Peter, I. Saric, **I. Kavre Piltaver**, I. Jelovica Badovinac, M. Petravac, Oxide formation on chromium metal surfaces by low-energy oxygen implantation at room temperature, *Thin Solid Films* 636 (2017) 225-231. (Q1)
 - 9) **I. Kavre Piltaver**, I. Jelovica Badovinac, R. Peter, I. Saric, M. Petravac, Modification of molybdenum surface by low-energy oxygen implantation at room temperature, *Appl. Surf. Sci.* 425 (2017) 416-422. (Q1)
 - 10) A. Omerzu, I. Saric, **I. Kavre Piltaver**, M. Petravac, T. Kapun, J. Zule, S. Stifter, K. Salamon, Prevention of spontaneous combustion of cellulose with a thin protective Al₂O₃ coating formed by atomic layer deposition, *Surf. Coat. Technol.* 333 (2018) 81-86. (Q1)
 - 11) M. Gligora Udovič, P. Žutunić, **I. Kavre Piltaver**, A. Kulaš, R. Ozimec, S. Tofilovska, *Gomphosphenia plenkoviciae* sp. nov. A new species from Crveo jezero, Croatia, *Phytotaxa* 351 (2018) 229-238. (Q2)
 - 12) S. Bosak, D.U.H. Becerril, **I. Kavre Piltaver**, M. Petravac, Z. Ljubešić, Morphological observations on the rare, planktonic, araphid diatom *Neodelphineis indica* (Taylor) Tanimura (Bacillariophyta), *Nova Hedwigia*, Beiheft 147 (2018) 35-41. (Q3)
 - 13) I. Jelovica Badovinac, **I. Kavre Piltaver**, R. Peter, I. Šarić, M. Petravac, Formation of oxides on CoCrMo surfaces at room temperature: An XPS study, *Appl. Surf. Sci.* 471 (2019) 475-481. (Q1)
 - 14) G. Ambrozic, M. Kolymjadi Markovic, R. Peter, **I. Kavre Piltaver**, I. Jelovica Badovinac, D. Cakara, D. Markovic, M. Knez, Building organosilica hybrid nanohemispherical via thiol-ene click reaction on alumina thin films deposition by atomic layer deposition (ALD), *J. Colloid Interface Sci.* 560 (2020) 303-311. (Q1)
 - 15) I. Jelovica Badovinac, R. Peter, A. Omerzu, K. Salamon, I. Šarić, A. Samaržija, M. Perčić, **I. Kavre Piltaver**, G. Ambrožić, M. Petravac, Grain size effect on photocatalytic activity of TiO₂ thin films grown by atomic layer deposition, *Thin Solid Films* 709 (2020) 138215. (Q2)
 - 16) I. Šarić, M. Kolymjadi Markovic, R. Peter, P. Linić, K. Wittine, **I. Kavre Piltaver**, I. Jelovica Badovinac, D. Marković, M. Knez, G. Ambrožić, In-situ multi-step pulsed vapor phase surface functionalization of zirconia nanoparticles via copper-free click chemistry, *Appl. Surf. Sci.* 539 (2021) 148254 (Q1)
 - 17) A. Omerzu, R. Peter, D. Jardas, I. Turel, K. Salamon, M. Podlogar, D. Vengust, I. Jelovica Badovinac, **I. Kavre Piltaver**, M. Petravac, Large enhancement of photocatalytic activity in ZnO thin films grown by plasma-enhanced atomic layer deposition, *Surfaces and Interfaces* 23 (2021) 100984 (Q1)
 - 18) N. Novosel, D. R. Gongora, Z. Jagličić, E. Tafrá, M. Basletić, A. Hamzić, T. Klaser, Ž. Skoko, K. Salamon, **I. Kavre Piltaver**, M. Petravac, B. Korin-Hamzić, S. Tomić, B. P. Gorshunov, T. Zhang, T. Ivek, M. Čulo, Grain-Size induced Collapse of Variable Range Hopping and Promotion of Ferromagnetism in Manganite La_{0.5}Ca_{0.5}MnO₃, *Crystals*, 12 (2022) 724 (Q2)
 - 19) B. Mifka, M. Tališman Prtenjak, I. Kavre Piltaver, D. Mekterović, J. Kruzmić, M. Marcus, I. Ciglencečki, Intense desert dust event in the northern Adriatic (March 2020); insights from the numerical model application and chemical characterization results, *Earth Space Sci.*, 10 e2023EA002879 (2023) (Q1)
 - 20) R. Markoska, R. Stojković, M. Filipović, M. Jurin, V. Špada, I. Kavre Piltaver, K. Pavelić, D. Marković, S. Kraljević Pavelić, Study of zeolite clinoptilolite D-glucose adsorption properties in vitro and in vivo, *Chem. Biol. Interact.* 382 (2023) 110641 (Q2)
 - 21) R. Peter, A. Omerzu, I. Kavre Piltaver, R. Speranza, K. Salamon, M. Podlogar, K. Velican, M. Percic, M. Petravac, Large enhancement of visible light photocatalytic efficiency of ZnO films doped in-situ by copper during atomic layer deposition growth, *Ceram. Int.* (in press) (2023) (Q1)

Scientific papers in other journals

- 1) Jelovica Badovinac, **I. Kavre Piltaver**, I. Šarić, R. Peter, M. Petravić, Oxidation of molybdenum by low energy ion bombardment, *Materiali in tehnologije/Materials and technology* 51 (2017) 617-621.

Scientific papers published in international peer-reviewed conference proceedings

- 1) M. Petravić, R. Peter, **I. Kavre**, L.H. Li, Y. Chen, L.-J. Fan, Y.-W. Yang, Decoration of nitrogen vacancies by oxygen atoms in boron nitride nanotubes, *Proceedings of 2010 Conference on Optoelectronic and Microelectronic Materials and Devices, COMMAD 2010, Canberra, Australija*, (2010) 217-218.
- 2) D. Jardas, A. Omerzu, R. Peter, **I. Kavre Piltaver**, M. Petravić, Photocatalytic activity under UV and solar illumination of thin ZnO films grown by atomic layer deposition, *2022 International Congress on Advanced Materials Sciences and Engineering (AMSE)*, (2022) 1–4

Projects

- Marie Curie Action, Initial Training Network: Physics of Complex Colloids, Equilibrium and Driven (COMPLOIDS), leader: prof. dr. sc. Christos N. Likos (October 2010 – October 2013) - PhD position
- Acquisition of Research and Scientific Excellence in the Functionalization of Biomedical Materials (co-financed by European Social Fund), leader: prof. dr. sc. Mladen Petravić (April 2014 – September 2016) – collaborator
- Ex-situ preparation of thin-layer hybrid materials with Atomic Layer Deposition techniques, (University Grant, University of Rijeka), leader: prof. dr. sc. Gabriela Ambrožić (April 2016) - collaborator
- Modification of surface and defect control for new applications of advanced functional materials, (University Grant, University of Rijeka), leader: prof. dr. sc. Mladen Petravić (2014) - collaborator
- Preparation of porous thin-layer materials for water purification by atomic deposition techniques (ALD) (Croatian Foundation for Science), leader: prof. dr. sc. Gabriela Ambrožić (April 2017 – April 2021) - collaborator
- Advanced functional materials based on semiconductor oxides (University Grant, University of Rijeka), leader: prof. dr. sc. Aleš Omerzu (2017) - collaborator
- Advanced films of metal oxides for enhanced photocatalytic activity (University Grant, University of Rijeka), leader: prof. dr. sc. Mladen Petravić (2018-2024) - collaborator

Conferences

Participation on conferences:

- 7. konferenca fizikov v osnovnih raziskavah, Portorož, Slovenia (Nov 5 2010)
- Mid-Term Review 2011, Vienna, Austria (Jun 16 –17 2011)
- Liquid Matter Conference 2011, Vienna, Austria (Sep 5 –10 2011)
- 14. slovensko srečanje o uporabi fizike, Portorož, Slovenia (Oct 28 2011)
- Physics of complex colloids, Comploids conference, Ljubljana, Slovenia (May 14 –18 2013) - poster
- International Soft Matter Conference, Università La Sapienza, Rome, Italy (Sep 15 –22 2013) - poster
- The 16th European Microscopy Congress, Lyon, France (Aug 28 – Sep 2 2016) - poster
- 24th International Conference on Materials and Technology, Portorož, Slovenia, (Sep 28 – 30 2016)
- 24th International Scientific Meeting on Vacuum Science and

Technique Zadar, Croatia (May 18 –19 2017) – invited speaker:
Controlling the grain size of polycrystalline TiO₂ films grown by atomic layer deposition

- 4th Croatian Microscopy Congress, Poreč, Croatia (May 18 – 20 2022)
- The 21st Symposium on Condensed Matter Physics, Beograd, Srbija (June 26 – 30 2023)
- 2. Croatian microscopic symposium Split, Croatia (Nov 24 – 25 2023)

Contribution on conferences

Invited speaker:

- **I. Kavre Piltaver**, R. Peter, I. Šarić, K. Salamon, I. Jelovica Badovinac, K. Koshmak, S. Nannarone, I. Delač Marion, M. Petravić, Controlling the grain size of polycrystalline TiO₂ films grown by atomic layer deposition, 24th International Scientific Meeting on Vacuum Science and Technique, Zadar, Croatia (May 18 – May 19 2017)

Posters – personal presentation

- **I. Kavre**, G. Kostevc, S. Kralj, D. Babič, Hydrodynamic synchronization of non-spherical colloids, Physics of Complex Colloids, Ljubljana, Slovenia, (May 13 – 18 2013)
- **I. Kavre**, A. Vilfan, D. Babič, Colloids embedded with magnetic nanoparticles, International Soft Matter Conference, Rome, Italy, (Sep 15 – 19 2013)
- **I. Kavre Piltaver**, I. Jelovica Badovinac, I. Šarić, R. Peter, M. Petravić, Controlling the grain size of polycrystalline TiO₂ films grown by atomic layer deposition, 16th European Microscopy Congress, Lyon, France, (Aug 28 – Sep 2 2016)
- **I. Kavre Piltaver**, I. Jelovica Badovinac, K. Veličan, A. Omerzu, Photocatalytic activity of thin ZnO ALD films deposited on porous substrates, 4th Croatian Microscopy Congress, Poreč, Croatia (May 18 – 20 2022)
- **I. Kavre Piltaver**, G. Kostevc, S. Kralj, D. Babič, Magnetic Field Directed Assembly of Magnetic Non-Spherical Microparticles, The 21st Symposium on Condensed Matter Physics, Beograd, Srbija (June 26 – 30 2023)
- **I. Kavre Piltaver**, R. Peter, K. Salamon, M. Petravić, Surface reduction of tungsten oxide thin film by low energy hydrogen ion bombardment, 2. Hrvatski mikroskopijski simpozij, Split, Hrvatska (Nov 24– 25 2023)

Visits to foreign scientific institutions

- **National Synchrotron Radiation Research Center (Hsinchu, Taiwan)** – measurements on beamline BL24A1 (Jan 8 – 16 2010, Nov 25 – Dec 1 2013)
- **Jozef Stefan Institute (Ljubljana, Slovenia)** - Training: Scanning Electron Microscope (SEM), Ljubljana, Slovenia (SIZIF project) (Sep 7 2015 – Oct 23 2015)
- **Elettra Sincrotrone Trieste (Basovizza, Italija)** – measurements on beamline BEAR (Sep 20 – 22 2016, Oct 3 – 5 2016, Jan 20 – 21 2017)

Membership in professional organizations

- Croatian microscopic society (member since 2015)
- European microscopic society (member since 2015)
- Croatian vacuum society (member since 2017)
- Alumni Club of the Department of Physics, University of Rijeka (member since 2019)

TEACHING ACTIVITY

Mentorship for bachelor and master thesis

- **Co-mentor** for the master thesis „Influence of temperature and surface of the substrate on the grain size of polycrystalline films of titanium dioxide grown by atomic layer deposition techniques“ – student Sonja Ribarić, mentor dr. sc. Iva Šarić co-mentor dr. sc. Ivna Kavre Piltaver, 2017
- **Mentor** for the bachelor thesis „Scanning electron microscope for the analysis of thin film sin cross-section“ – student Virna Kisiček, 2017
- **Co-mentor** for the master thesis „Fotocatalitic properties of thin films of zinc oxide grown by atomic layer deposition on porous structures“ – student Virna Kisiček, mentor dr. sc. Aleš Omerzu, co-mentors: dr. sc. Ivana Jelovica Badovinac and dr. sc. Ivna Kavre Piltaver, 2019
- **Mentor** for the bachelor thesis „Application of Scanning electron microscope in forensics“ – student Maja Čičić, 2020
- **Co-mentor** for the master thesis „Photocatalytic properties of zinc oxide thin films doped with copper“ – student Renato Speranza, mentor. Assoc. prof. Robert Peter, co-mentor Assist. prof. Ivna Kavre Piltaver, 2022.

Pubblication of textbook

problem book

I.Kavre Piltaver, V. Labinac, Collection of solved problem sin waves and optics (*Repetitorij i zbirka riješenih zadataka iz valova i optike*), Department of Physics, University of Rijeka, Rijeka, 2020

e-textbook

T. Jurkić, D. Kotnik-Karuza, M. Sarta-Deković, L. Mandić, N. Erceg, I. Kavre Piltaver V. Labinac, Lj. Špirić: Physics laboratory IV (internal teaching material at the Department of Physics, University of Rijeka)

Courses

| Date | Course | Institution |
|-------------|--|---|
| 2013 / 2014 | Biophysics (laboratory), Undergraduate study in dental medicine, 1st year | Faculty of Medicine, University of Rijeka |
| 2013 / 2014 | Physics and biophysics (exercises and laboratory), Undergraduate study in Sanitary engineering, 1st year | Faculty of Medicine, University of Rijeka |
| 2013 / 2014 | Basic of physics 2, Undergraduate study in informatics, 1st year | Department of Informatics, University of Rijeka |
| 2014 / 2015 | Biophysics (laboratory), Undergraduate study in dental medicine, 1st year | Faculty of Medicine, University of Rijeka |
| 2014 / 2015 | Physics and biophysics (exercises), Undergraduate study in dental medicine, 1st year | Faculty of Medicine, University of Rijeka |
| 2014 / 2015 | Physics laboratory IV, Undergraduate study in physics, 3rd year | Department of Physics, University of Rijeka |
| 2015 / 2016 | Physics 3 (wave and optics), Undergraduate study in physics, 2nd year (exercises) | Department of Physics, University of Rijeka |
| 2015 / 2016 | Electronics laboratory, Graduate study in physics, 2nd year | Department of Physics, University of Rijeka |
| 2015 / 2016 | Physics laboratory IV, Undergraduate study in physics, 3rd year | Department of Physics, University of Rijeka |
| 2015 / 2016 | Physics laboratory IV, Undergraduate study in physics and math, physics and philosophy, 3rd year | Department of Physics, University of Rijeka |
| 2016 / 2017 | Physics 3 (wave and optics), Undergraduate study in physics, 2nd year (exercises) | Department of Physics, University of Rijeka |
| 2016 / 2017 | Electronics laboratory, Graduate study in physics, | Department of Physics, |

| | | |
|-------------|---|---|
| | 2nd year | University of Rijeka |
| 2017 / 2018 | Physics laboratory IV, Undergraduate study in physics, 3rd year | Department of Physics, University of Rijeka |
| 2017 / 2018 | Physics 3 (wave and optics), Undergraduate study in physics, 2nd year (exercises) | Department of Physics, University of Rijeka |
| 2019 / 2020 | Physics laboratory IV, Undergraduate study in physics, 3rd year | Department of Physics, University of Rijeka |
| 2019 / 2020 | Electronics, Graduate study in physics, 1st year | Department of Physics, University of Rijeka |
| 2019 / 2020 | Scanning electron microscopy, PhD study in physics, 1st year | Department of Physics, University of Rijeka |
| 2021 / 2022 | Physics, Undergraduate study of biotechnology | Department of biotechnology, University of Rijeka |
| 2021 / 2022 | Physics laboratory IV, Undergraduate study in physics, 3rd year | Department of Physics, University of Rijeka |
| 2021 / 2022 | Electronics, Graduate study in physics, 1st year | Department of Physics, University of Rijeka |
| 2022 / 2023 | Physics, Undergraduate study of biotechnology | Department of biotechnology, University of Rijeka |
| 2022 / 2023 | Physics laboratory IV, Undergraduate study in physics, 3rd year | Faculty of Physics, University of Rijeka |
| 2022 / 2023 | Electronics, Graduate study in physics, 1st year | Faculty of Physics, University of Rijeka |
| 2022 / 2023 | Medical physics and bipphysics, Undergraduate study of medicine | Faculty of medicine, University of Rijeka |
| 2022 / 2023 | Laboratory project, Undergraduate study of physics | Fakultet za fiziku, Sveučilište u Rijeci |
| 2022 / 2023 | Professional Traineeship, Graduate study in physics | Faculty of Physics, University of Rijeka |
| 2023 / 2024 | Physics laboratory IV, Undergraduate study in physics, 3rd year | Faculty of Physics, University of Rijeka |
| 2023 / 2024 | Electronics, Graduate study in physics, 1st year | Faculty of Physics, University of Rijeka |
| 2023 / 2024 | Medical physics and bipphysics, Undergraduate study of medicine | Faculty of medicine, University of Rijeka |
| 2023 / 2024 | Instrumental methods in physics, Graduate study in physics | Faculty of Physics, University of Rijeka |
| 2023 / 2024 | Professional Traineeship, Graduate study in physics | Faculty of Physics, University of Rijeka |

Popularization activities

- Survey of passers-by for the popular science show Baltazar, Radio Rijeka (2010)
- Hokus – pokus physics, experiments at Korzo as part of the Science Festival, Rijeka (Apr 21 2010)
- Lecture at the Colloquium of the Society of Mathematicians and Physicists - *Story of colloids: What do milk, shaving foam and fog have in common?* Rijeka, (May 9 2013)
- Physics in the kitchen, workshop within the 3rd Rijeka School of Physics (Apr 16 2014.)
- The world under Scanning Electron Microscope, workshop as part of the Open Day of the Department of Physics, I. Kavre Piltaver, I. Jelovica Badovinac, (Nov 30 2015)
- Open days at the Department of Physics, University of Rijeka – visit of the Laboratory for Scanning Electron Microscopy, (Nov 23 2016)

- Open days at the Department of Physics, University of Rijeka – visit of the Laboratory for Scanning Electron Microscopy, (Apr 25 2017)
- Visit to the laboratories of the Department of Physics, University of Rijeka for the Italin high school students (Nov 2 2017)
- Visit to the laboratories of the Department of Physics, University of Rijeka for the Jurija Dobre high school students (Nov 9 2017)
- Open days at the Department of Physics, University of Rijeka – visit of the Laboratory for Scanning Electron Microscopy, (Apr 17 2018)
- Open days at the Department of Physics, University of Rijeka – visit of the Laboratory for Scanning Electron Microscopy, (Apr 8 2019)
- Lecture at the Scientific festival Rijeka (Festival znanosti) - *Colors on macro- and micro-scale* (Apr 10 2019)
- Open day at the Faculty of Physics, University of Rijeka – visit of the Laboratory for Thin Films, (May 3 2022)
- Lecture for the Open day at the Faculty of Physics, University of Rijeka - *Life under the microscope* (May 3 2022)
- Workshop *Eggology* (Scientific festival Rijeka), Snoopy, Kostrena (for kids 3-5 years) (May 3 2022)
- Station View into the nanoworld, Researcher's night (Noć istraživača) (Oct 1 2022)
- UNIRI Nano day (Oct 9 2022)
- Opening of the exhibition „View into the nanoworld“ Rijeka technology (Jan 30 2023)
- Workshop *Eggology* – for pupils of the school Sveti Matej, Rijeka technology (Jan 30 2023)
- Microchips in focus Laboratory for Scanning Electron Microscopy, workshop, Opn days of the Faculty of Physics, University of Rijeka (Apr 26 2023)
- Workshop *Eggology*, Scientific festival Rijeka (Apr 26 2023)
- Station View into the nanoworld, Researcher's night (Noć istraživača) (Sept 29 2023)

APPENDICES

Bibliography list at the link: <https://www.bib.irb.hr/pregled/profil/32768>

Link to the portfolio of the University of Rijeka: <https://portal.uniri.hr/portfelj/2379>