

**Stevan Armaković, PhD**

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<https://armakovic.com>

<https://emos.armakovic.com>

<https://atomistica.online>

<https://aidasco.org>



## WORK EXPERIENCE

### 2022 – PRESENT

#### CO-FOUNDER & LEAD DEVELOPER, ATOMISTICA.ONLINE

- Registered business entity and open-access platform for atomistic calculations and molecular modeling: <https://atomistica.online>
- Development of molecular modeling and AI-driven tools (online applications, GUIs for xTB/ORCA/PSI4/Multiwfn, ML models for ionic liquids, molecular systems generators)
- Scientific programming and deployment of web applications
- Development of laboratory information management systems (LIMS)
- Bridging academia and industry by providing computational tools for researchers and companies.
- Active participation in international networks and collaboration with universities, research institutes, and industrial partners

### 2020 – PRESENT

#### BOARD PRESIDENT, ASSOCIATION FOR THE INTERNATIONAL DEVELOPMENT OF ACADEMIC AND SCIENTIFIC COLLABORATION (AIDASCO)

- Co-Founder and Board President of a legally registered non-governmental, non-profit association fostering international academic and scientific collaboration
- Co-Editor in chief of “AIDASCO Reviews” (ISSN 2956-0888, DOI: 10.59783), an open-access scientific journal supporting young researchers
- Built international networks by connecting academics and scientists worldwide to conduct joint projects and collaborations
- Promoted students and young researchers through active involvement in the research activities of AIDASCO members
- Advanced science promotion and communication, public education on socially important topics, and promotion of gender equality in academia

### 2024 – PRESENT

#### ASSOCIATE PROFESSOR, UNIVERSITY OF NOVI SAD, FACULTY OF SCIENCES, DEPARTMENT OF PHYSICS

- Teaching undergraduate and graduate courses, including Machine Learning, Programming in Python, Modeling in Physics, Vibrational Spectroscopy, and Biophysics
- Academic advisor for the Computational and IT Physics study module
- Conducting research in materials science, organic and inorganic nanomaterials, advanced oxidation processes, ionic liquids, and physics education
- Member of the Faculty Committee for the Evaluation of Scientific Excellence

**2019 – 2024**

**ASSISTANT PROFESSOR**, UNIVERSITY OF NOVI SAD, FACULTY OF SCIENCES, DEPARTMENT OF PHYSICS

- Taught undergraduate and graduate courses, including Kinetic Theory of Gases, Programming in Physics, Demonstrational Experiments in Physics II, Vibrational Spectroscopy, Biophysics, and Science Popularization
- Research in materials science, organic and inorganic nanomaterials, advanced oxidation processes, ionic liquids, and physics education, Supervision of students

**2019 – 2024**

**MEMBER OF USAID RESEARCH TECHNICAL ASSISTANCE CENTER**

- Research assistance to projects within USAID

**2018 – 2023**

**PHYSICS TEACHER**, “JOVAN JOVANOVIĆ ZMAJ” HIGH SCHOOL

- Teaching “Modeling in Physics” and “Physics of Atoms and Molecules” for students with exceptional abilities in physics

**2015 – 2020**

**ASSISTANT RESEARCH PROFESSOR**, UNIVERSITY OF NOVI SAD, FACULTY OF SCIENCES DEPARTMENT OF PHYSICS

- Research in the area of materials science, science communication

**2012 – 2015**

**RESEARCH ASSISTANT**, UNIVERSITY OF NOVI SAD, FACULTY OF SCIENCES, DEPARTMENT OF PHYSICS

- Research in the area of materials science, science communication

**2010 – 2012**

**JUNIOR RESEARCH ASSISTANT**, UNIVERSITY OF NOVI SAD, FACULTY OF SCIENCES, DEPARTMENT OF PHYSICS

- PhD student, Research in the area of materials science

## EDUCATION

**OCTOBER 2014**

**PHD, THEORETICAL CONDENSED MATTER PHYSICS**

UNIVERSITY OF NOVI SAD, FACULTY OF SCIENCE DEPARTMENT OF PHYSICS

**SEPTEMBER 2009**

**GRADUATED PHYSICIST**

UNIVERSITY OF NOVI SAD, FACULTY OF SCIENCE DEPARTMENT OF PHYSICS

**SEPTEMBER 2004**

**HIGH SCHOOL GRADUATION**

“IVO LOLA RIBAR” HIGH SCHOOL, SREMSKA MITROVICA, REPUBLIC OF SERBIA

**SEPTEMBER 2000**

**ELEMENTARY MUSIC SCHOOL GRADUATION**

“PETAR KRANČEVIĆ” MUSIC SCHOOL, INSTRUMENT CLARINET, SREMSKA MITROVICA, REPUBLIC OF SERBIA

## SCIENTIFIC METRICS

- Included in 2025 Stanford's list of World Top 2% scientists (Chemistry, Chemical Physics)
- Included in 2024 Stanford's list of World Top 2% scientists (Chemistry, Chemical Physics)
- Included in 2023 Stanford's list of World Top 2% scientists (Chemistry, Chemical Physics)
- 170+ papers published in journals with impact factors. The complete publication list can be seen at <https://armakovic.com/publications1>
- 450+ verified pre-publication reviews for journals with impact factors, Web of Science profile: <https://www.webofscience.com/wos/author/record/H-3647-2019>
- Total number of citations (accessed: January 10, 2026):  
Google Scholar: 5413, h-index 44  
Scopus: 4701, h-index 44

## SKILLS

- Computational materials and molecular modeling, computational physics and chemistry, ab initio, molecular dynamics, molecular docking
- Scientific programming (Python, ML/AI model development, workflow automation)
- Experience in the following codes and program packages:  
Schrödinger Materials Science Suite (Jaguar, Desmond, MacroModel, Canvas, Maestro), ORCA, xTB, PSI4, Synopsis QuantumATK, SCM ADF, Turbomole, Gaussian, GAMESS, Quantum Espresso, Autodock Vina, Multiwfn, VMD, etc.
- Communication and Presentation Skills:
  - Schrödinger's 2nd European Materials Science Bootcamp (2016) – Invited lecture: Rationalization of Experiments with Schrödinger Materials Science Suite (Curved carbon nanostructures and ionic liquids)
  - COOL scientist – Researcher Night (2016), University of Novi Sad
- Computer skills:
  - Linux and Windows operating systems
  - Programming in python, web applications
  - Web and graphic design
  - High-performance computing clusters and SLURM scheduling system
- Remote teaching, Conferencing

## REWARDS AND CERTIFICATES

- Rewards for scientific excellence in the area of physical sciences in 2022 and 2023, by the Government of the Autonomous Province of Vojvodina
- 2019, HOT Physical Chemistry Chemical Physics Articles, Selected by the Editors, <https://doi.org/10.1039/C9CP04534A>
- Awards by Publons
  - Top Reviewers in "Cross-field", September 2019
  - Top Reviewers for the field "Multidisciplinary", September 2017
  - Top Reviewers for the field "Multidisciplinary", September 2016
  - 2016, Runner-up paper in Excellence in Materials Science Applications Publication Contest, held by Schrödinger Inc
- 2010, Reward for the best poster presentation at the Young Researchers Conference organized by the Materials Research Society of Serbia

## RESEARCH PROJECTS AND GRANTS

- 2024 – 2025  
Title: Advanced computer simulations for the design of more effective and safer drug nanocarriers: a focus on molecular interactions  
Role: Researcher in charge of computational materials design  
Funded by: Ministry of Scientific and Technological Development and Higher Education of the Republic of Srpska, Bosnia and Herzegovina (Project No. 19.032/961-90/24)
- 2023 – 2025  
Title: iMERMAID – Inovative solutions for Mediterranean Ecosystem Remediation via Monitoring and decontamination from Chemical Pollution  
Role: Researcher in charge of computational materials design  
Funded by: European Commission, Grant Agreement Number 101112824
- 2023 – 2024  
Application of photocatalytically active polymers biosynthesized on mediums with industrial effluents  
Role: Researcher in charge of computational materials design  
Funded by: Autonomous Province of Vojvodina, Serbia, Grant ID: 142-451-3166/2023-01/01
- 2021 – 2022  
Title: PROTEIN – Personalized nutrition for hEalthy living  
Role: Researcher in charge of computational materials design  
Funded by: Horizon 2020 , Grant Agreement Number 817732
- 2019 – present  
Title: Nanotechnology materials in biotechnology  
Role: Project application and co-principle researcher  
Funded by: Ministry for Scientific and Technological Development, Higher Education and Information Society, Republic of Srpska, Bosnia and Herzegovina, Grant ID: 19/6-020/961-32/18.
- 2018 – 2019  
Title: Virtual human osteoarticular system and its application in preclinical and clinical practice  
Role: Researcher  
Funded by: Ministry of Education, Science and Technological Development of the Republic of Serbia, Grant ID: III 41017
- 2017 – 2019, 2025  
Title: CONNECT events 1-3,7 Connecting students and young researchers of the western Balkan region. Towards the establishment of Science Communication Center and Western Balkan Scientific Association  
Role: applicant, mentor of student projects  
Funded by: German Academic Exchange Service (DAAD)
- 2017 – 2018  
Title: Comparison of photocatalytic efficiencies of Zr/Fe<sub>3</sub>O<sub>4</sub> and Si/ZrO<sub>2</sub> nanopowders in degradation of biologically active compounds present in environment, by application of simulated sun irradiation  
Role: Researcher  
Funded by: Provincial Secretariat for Science and Technological Development of Vojvodina, Republic of Serbia, Grant ID: 142-451-2727/2017-01/01
- 2011 – 2018  
Title: Design and modeling of specific properties of nanostructures  
Role: Researcher and project administration

Funded by: Ministry of Education, Science and Technological Development of the Republic of Serbia, Grant ID: ON171039

- 2011 – 2018

Title: Improvement of forensic methods and their application

Role: Researcher and project administration

Funded by: Ministry of Education, Science and Technological Development of the Republic of Serbia, Grant ID: TR34019

- 2010 – 2011

Title: Improvement of physical properties of nanostructured materials

Role: Researcher and project administration

Funded by: Ministry of Education, Science and Technological Development of the Republic of Serbia

## OTHER

- Hobbies: basketball, clarinet, music, writing of SF novel, python programming and web design
- Married with Sanja, father of two.