CURRICULUM VITAE
Kristina Mojsilović

PERSONAL INFORMATION

Address: Husinskih rudara 21, 11000 Belgrade, Serbia
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Telephone: 069/5769771
Date and place of birth: 21.07.1996, Paraćin, Serbia

WORK EXPERIENCE

- 2021-present

Faculty of Physics, University of Belgrade, Serbia
17.02.2021- Junior Research Assistant
23.11.2022- Research Assistant
25.10.2024- Research Associate

- 2025-2026

Helmholtz Zentrum hereon GmbH, Postdoctoral position (Scientist)

EDUCATION

- 2015-2019.

Undergraduate studies
Applied and Computer Physics
Faculty of Physics
University of Belgrade, Serbia
Mean mark: 9.91/10.00

- 2019-2020.

Master studies
Applied and Computer Physics
Faculty of Physics
University of Belgrade, Serbia
Mean mark: 10.00/10.00

- Doctoral studies 2020-2024

Applied and Computer Physics
Faculty of Physics
University of Belgrade, Serbia
Mean mark: 10.00/10.00

LANGUAGE SKILLS

- **Serbian** – native speaker
- **English –** fluent

BIBLIOGRAPHY

1. Kristina Mojsilović, Nenad Tadić, Uroš Lačnjevac, Stevan Stojadinović, Rastko Vasilić, Characterization of Al-W oxide coatings on aluminum formed by pulsed direct current plasma electrolytic oxidation at ultra-low duty cycles, Surface and Coatings Technology, 411 (2021) 126982, https://doi.org/10.1016/j.surfcoat.2021.126982.

2. Kristina Mojsilović, Nikola Božović, Srna Stojanović, Ljiljana Damjanović Vasilić, Maria Serdechnova, Carsten Blawert, Mikhail L. Zheludkevich, Stevan Stojadinović, Rastko Vasilić, Zeolite-containing photocatalysts immobilized on aluminum support by plasma electrolytic oxidation, Surfaces and Interfaces, 26 (2021) 101307, https://doi.org/10.1016/j.surfin.2021.101307.

3. Kristina Mojsilović, Uroš Lačnjevac, Srna Stojanović, Ljiljana Damjanović Vasilić, Stevan Stojadinović, Rastko Vasilić, Formation and Properties of Oxide Coatings with Immobilized Zeolites Obtained by Plasma Electrolytic Oxidation of Aluminum, Metals, 11 (2021) 1241, https://doi.org/10.3390/met11081241.

4. Alaa M. Abd-Elnaiem, Moustafa A. Abdel-Rahim, Atta Y. Abdel-Latief, Ahmed Abdel-Rahim Mohamed, Kristina Mojsilović, Wojciech Jerzy Stępniowski, Fabrication, Characterization and Photocatalytic Activity of Copper Oxide Nanowires Formed by Anodization of Copper Foams, Materials, 14 (2021) 5030, https://doi.org/10.3390/ma14175030.

5. Ting Wu, Carsten Blawert, Maria Serdechnova, Polina Karlova, Gleb Dovzhenko, D.C. Florian Wieland, Stevan Stojadinović, Rastko Vasilić, Kristina Mojsilović, Mikhail L. Zheludkevich, Formation of plasma electrolytic oxidation coatings on pure niobium in different electrolytes, Applied Surface Science, 573 (2022) 151629, https://doi.org/10.1016/j.apsusc.2021.151629.

6. Damian Giziński, Kristina Mojsilović, Anna Brudzisz, Urša Tiringer, Rastko Vasilić, Peyman Taheri, Wojciech J. Stępniowski, Controlling the Morphology of Barrel-Shaped Nanostructures Grown via CuZn Electro-Oxidation, Materials 15 (2022) 3961, https://doi.org/10.3390/ma15113961.

7. Ting Wu, Carsten Blawert, Maria Serdechnova, Polina Karlova, Gleb Dovzhenko, D.C. Florian Wieland, Stevan Stojadinović, Rastko Vasilić, Linqian Wang, Cheng Wang, Kristina Mojsilović, Mikhail L. Zheludkevich, Role of phosphate, silicate and aluminate in the electrolytes on PEO coating formation and properties of coated Ti6Al4V alloy, Applied Surface Science, 595 (2022) 153523, https://doi.org/10.1016/j.apsusc.2022.153523.

8. Nikola Božović, Kristina Mojsilović, Srna Stojanović, Ljiljana Damjanović Vasilić, Maria Serdechnova, Carsten Blawert, Mikhail L. Zheludkevich, Stevan Stojadinović, Rastko Vasilić, Oxide Coatings With Immobilized Ce-ZSM5 As Visible Light Photocatalysts, Journal of the Serbian Chemical Society, 87 (2022) 1035-1048, https://doi.org/10.2298/JSC211203058B.

9. Kristina Mojsilović, Jovica Jovović, Stevan Stojadinović, Rastko Vasilić, Micro-second range pulsed DC plasma electrolytic oxidation on Ti and Nb, Solid State Sciences,133(2022)107018, https://doi.org/10.1016/j.solidstatesciences.2022.107018.

10. Nikola Božović, Kristina Mojsilović, Srna Stojanović, Ljiljana Damjanović Vasilić, Stevan Stojadinović, Rastko Vasilić, The influence of electrolyte on photocatalytic activity of PEO coatings with incorporated Ce-ZSM5 formed on aluminum, Journal of Solid State Electrochemistry 27 (2023) 1945-1953, https://doi.org/10.1007/s10008-023-05455-4.

11. Srna Stojanović, Vladislav Rac, Kristina Mojsilović, Rastko Vasilić, Smilja Marković, Ljiljana Damjanović Vasilić, Photocatalytic degradation of bisphenol A in aqueous solution using TiO_2/clinoptilolite hybrid photocatalyst, Environmental Science and Pollution Research, 30 (2023) 84046–84060, https://doi.org/10.1007/s11356-023-28397-w.

12. Valeryia Kasneryk, Ting Wu, Hauke Rohr, Maria Serdechnova, Kristina Mojsilović, D.C. Florian Wieland, Anton Davydok, Eugen Gazenbiller, Rastko Vasilić, Carsten Blawert, Norbert Stock, Mikhail L. Zheludkevich, Controllable recrystallization of ZnO/ZnAl2O4 based PEO into ZIF-8 as a route for the formation of multifunctional coatings, Journal of Industrial and Engineering Chemistry, 132 (2024) 395-409, https://doi.org/10.1016/j.jiec.2023.11.033.

13. Kristina Mojsilović, Stevan Stojadinović, Rastko Vasilić, The Plasma Electrolytic Oxidation of Aluminum Using Microsecond-Range DC Pulsing, Metals, 13 (2023) 1931, https://doi.org/10.3390/met13121931.

14. Kristina Mojsilović, Maria Serdechnova, Carsten Blawert, Mikhail L. Zheludkevich, Stevan Stojadinović, Rastko Vasilić, In-situ incorporation of LDH particles during PEO processing of aluminium alloy AA2024, Applied Surface Science, 654 (2024) 159450, https://doi.org/10.1016/j.apsusc.2024.159450.

15. Kristina Mojsilović, Maria Serdechnova, Carsten Blawert, Mikhail L. Zheludkevich, Stevan Stojadinović, Rastko Vasilić, Simple incorporation and calcination of Zn-Al LDH during PEO processing in near-neutral pH solutions, Applied Surface Science, 677 (2024) 161065, https://doi.org/10.1016/j.apsusc.2024.161065.

16. Kristina Mojsilović, Nenad Tadić, Srna Stojanović, Ljiljana Damjanović-Vasilić, Rastko Vasilić, Facile Preparation of Composite Coatings with Incorporated 13X Zeolite and CeO_2, Coatings 14 (2024)1516, https://doi.org/10.3390/coatings14121516.

17. Đorđe Dedić, Kristina Mojsilović, Maria Serdechnova, Carsten Blawert, Milan Damjanović, Rastko Vasilić, Mikhail L. Zheludkevich, Formation of multi-functional coatings composed of Al_2O_3 and $ZrSiO_4$ on AA2024 alloy using plasma electrolytic oxidation, Ceramics International, 51 (2025) 35166-35180, https://doi.org/10.1016/j.ceramint.2025.05.240.

18. Kristina Mojsilović, Maria Serdechnova, Carsten Blawert, Valeryia Kasneryk, Zhe Zhang, D.C. Florian Wieland, Rastko Vasilić, Mikhail L. Zheludkevich, Tailoring plasma electrolytic oxidation through metallic cation addition: Insights from bipolar and unipolar electrical regimes, Applied Surface Science Advances, 29 (2025) 100845, https://doi.org/10.1016/j.apsadv.2025.100845.

19. Kristina Mojsilović, Carsten Blawert, Maria Serdechnova, Mikhail L. Zheludkevich, Thermal conductivity of PEO-coated AlMg3 samples with different particle additions, International Communications in Heat and Mass Transfer, 174 (2026) 110903, https://doi.org/10.1016/j.icheatmasstransfer.2026.110903.

20. Kristina Mojsilović, Srna Stojanović, Rastko Vasilić, Ljiljana Damjanović-Vasilić, Photocatalytic Wastewater Treatment Using Oxide Coatings with Immobilized Zeolites

Obtained by Plasma Electrolytic Oxidation - A Review, Minerals, 16 (2026) 406, https://doi.org/10.3390/min16040406.

21. Kristina Mojsilović, Rastko Vasilić, Marko Dević, Nenad Tadić, Unipolar and Bipolar Plasma Electrolytic Oxidation (PEO) Coatings with Zeolite Additives for Photocatalytic Applications, Molecules, 31 (2026) 1752, https://doi.org/10.3390/molecules31101752.

PROJECTS

- 2019-2021-Bilateral cooperation between Serbia and France, Pavle Savic programme, Plasma electrolytic oxidation for obtaining advanced multifunctional oxide coatings
- 2019-2024-H2020-MSCA-RISE-2018, FUNCOAT, Development and design of novel multifunctional PEO coatings, Project No 823942
- 2021-NAWA PROM, The Polish National Agency for Academic Exchange
- 2023-Present-Science Fund of the Republic of Serbia, grant number 7309 ZEOCOAT
- 2025-2026-HORIZON-CL4-2022-TWIN-TRANSITION-01 SURE2COAT: SUSTAINABLE SURFACE TREATMENTS OF COMPLEX SHAPE COMPONENTS FOR TRANSSECTORIAL INDUSTRIAL INNOVATION (SURE2COAT), Project No 101091982

ADDITIONAL SKILLS

- **Software:** Windows operating system; MATLAB;C++; OriginLab, Python
- **Lab competence and experience**
- **Teaching and presenting**
- **Good teamwork skills**
- **Good organizational Skills**