

## CV of the researcher

### Full name, place of birth, nationality, and date of CV

Full name: Martina Kocijan  
Gender: Female  
Date of birth: 18/4/1993 in Zabok, Croatia  
Nationality: Croatian/EU citizenship  
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### Researcher unique identifiers:

**ORCID:** 0000-0003-3558-8687, **ResearcherID:** ABC-6913-2021,

**Scopus ID:** 57221088703

Date of CV 20/8/2024

### Professional experience

#### *Current positions*

- **1/1/2024–**, Representative of Croatia of the European Ceramic Society's "Young Ceramists Network", currently holds >2,000 members, volunteer work, <https://youngceramists.eu/>
- **1/10/2020–**, Head of Metal Analysis Laboratory at Department of Materials, Faculty of Mechanical Engineering and Naval Architecture, fixed term contract until 30/9/2024
- **1/12/2018–**, Research assistant at University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Department of Materials, fixed term contract until 30/11/2024

#### *Previous work experience*

- **23/7/2024–2/8/2024**, Visiting researcher, De Montfort University, Faculty of Health and Life Sciences, Leicester School of Pharmacy, Centre for Engineering Science and Advanced Systems (CESAS), Leicester, United Kingdom, full time employment, Supervisor: Professor Katherine Huddersman, funded by AMAC-UK academic award
- **1/12/2019–17/11/2023**, PhD student, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Department of Materials, full time employment, Supervisor: Professor Lidija Čurković
- **12/6/2022–12/8/2022**, Visiting PhD student, University of Pannonia, Faculty of Engineering, Department of General and Inorganic Chemistry, Environmental photochemistry research group, Veszprem, Hungary, full time employment, Supervisors: Professor Ottó Horváth and Professor Erzsébet Szabóné Bárdos, funded by Tempus Public Foundation
- **20/1/2022–19/3/2022**, Visiting PhD student, De Montfort University, Faculty of Health and Life Sciences, Leicester School of Pharmacy, Centre for Engineering Science and Advanced Systems (CESAS), Leicester, United Kingdom, full time employment, Supervisor: Professor Katherine Huddersman, funded by British Scholarship Trust Foundation
- **1/6/2021–30/9/2021**, Visiting PhD student, Department for Nanostructured Materials, Institute Jožef Stefan, Ljubljana, Slovenia, full time employment, Supervisor: Dr. Matejka Podlogar, funded by Erasmus+ program
- **1/2/2021–31/3/2021**, Visiting PhD student, Department for Nanostructured Materials, Institute Jožef Stefan, Ljubljana, Slovenia, full time employment, Supervisor: Dr. Matejka Podlogar, funded by Erasmus+ program
- **2019–2023**, Project research assistant: Enhancing Research Culture in Higher Education in Kosovo, Project Leader: Prof. Dr. Lidija Čurković, Erasmus+ program
- **2019–2022**, Project research assistant: Nanostructured Au-TiO<sub>2</sub> films on porous Al<sub>2</sub>O<sub>3</sub> ceramics: synthesis and application in advanced oxidation processes (Croatian-Serbian bilateral project), Project Leader: Prof. Dr. Lidija Čurković, Ministry of Science and Education, Croatia
- **17/2/2018–31/7/2018**, Visiting master student, University of Porto, Faculty of Sciences, Department of

Chemistry and Biochemistry, REQUIMTE/LAQV, Porto, Portugal, full time, Supervisor: Professor Cristina Freire and Dr. Marta Nunes, funded by Erasmus+ program

### Education and degrees awarded

- **17/11/2023** Doctor of Science with distinction, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Verification contact: Prof. dr. Tamara Krajna, tkrajna@fsb.hr
- **26/9/2018** Master Engineer of Chemical Engineering, University of Zagreb, Faculty of Chemical Engineering and Technology
- **12/9/2016** Bachelor of Chemical Engineering, University of Zagreb, Faculty of Chemical Engineering and Technology

### List of publications

Author or co-author of 10 publications in international journals indexed by SCI (115 citations, h-index 6, Scopus: 20/8/2024), 3 conference papers, 1 book chapter, and 30 conference contributions.

#### Peer-reviewed journal articles

1. Seleš, Patrick; Vengust, Damjan; Radošević, Tina; **Kocijan, Martina**; Einfalt, Lara; Kurtjak, Mario; Shvalya, Vasyi; Knaflič, Tilen; Bernik, Slavko; Omerzu, Aleš; Podlogar, Matejka; Altering defect population during the solvothermal growth of ZnO nanorods for photocatalytic applications, *Ceramics International*, 2024.
2. **Kocijan, Martina**; Ćurković, Lidija; Vengust, Damjan; Radošević, Tina; Shvalya, Vasyi; Gonçalves, Gil; Podlogar, Matejka; Synergistic Remediation of Organic Dye by Titanium Dioxide/Reduced Graphene Oxide Nanocomposite, *Molecules*, 28 (2023), 7326.
3. **Kocijan, Martina**; Vukšić, Milan; Kurtjak, Mario; Ćurković, Lidija; Vengust, Damjan; Podlogar, Matejka; TiO<sub>2</sub>-Based Heterostructure Containing g-C<sub>3</sub>N<sub>4</sub> for an Effective Photocatalytic Treatment of a Textile Dye, *Catalysts*, 12 (2022), 1554.
4. **Kocijan, Martina**; Ćurković, Lidija; Gonçalves, Gil; Podlogar, Matejka; The Potential of rGO@TiO<sub>2</sub> Photocatalyst for the Degradation of Organic Pollutants in Water, *Sustainability*, 14 (2022), 12703.
5. Vukšić, Milan; **Kocijan, Martina**; Ćurković, Lidija; Radošević, Tina; Vengust, Damjan; Podlogar, Matejka; Photocatalytic Properties of Immobilised Graphitic Carbon Nitride on the Alumina Substrate, *Applied Sciences*, 12 (2022), 9704.
6. Rede, Vera; Essert, Sara; **Kocijan, Martina**; Dubravac, Tomislav; Influence of Ageing on Abrasion Volume Loss, Density, and Structural Components of Subfossil Oak, *Applied Sciences*, 12 (2022), 1814.
7. **Kocijan, Martina**; Ćurković, Lidija; Bdikin, Igor; Otero-Irurueta, Gonzalo; J. Hortigüela, María; Gonçalves, Gil; Radošević, Tina; Vengust, Damjan; Podlogar, Matejka; Immobilised rGO/TiO<sub>2</sub> Nanocomposite for Multi-Cycle Removal of Methylene Blue Dye from an Aqueous Medium, *Applied Sciences*, 12 (2022), 385.
8. **Kocijan, Martina**; Ćurković, Lidija; Radošević, Tina; Podlogar, Matejka; Enhanced Photocatalytic Activity of Hybrid rGO@TiO<sub>2</sub>/CN Nanocomposite for Organic Pollutant Degradation under Solar Light Irradiation, *Catalysts*, 11 (2021), 1203.
9. **Kocijan, Martina**; Ćurković, Lidija; Ljubas, Davor; Mužina, Katarina; Bačić, Ivana; Radošević, Tina; Podlogar, Matejka; Bdikin, Igor; Otero-Irurueta, Gonzalo; Hortigüela, María J.; Gonçalves, Gil; Graphene-based TiO<sub>2</sub> nanocomposite for photocatalytic degradation of dyes in aqueous solution under solar-like radiation, *Applied Sciences*, 11 (2021), 3966.
10. **Kocijan, Martina**; Ćurković, Lidija; Radošević, Tina; Podlogar, Matejka; Preparation, characterization and photocatalytic activity of TiO<sub>2</sub>/reduced graphene oxide nanocomposite, *Annals of DAAAM and Proceedings of the International DAAAM Symposium*, 31 (2020), 668–676.

### Book chapter

1. Henriques, Bruno; Ferreira, Nicole; **Kocijan, Martina**; Vukšić, Milan; Ünlü, Burak; Türk, Serbüent; Özacar, Mahmut; Gonçalves, Gil; Graphene-based Materials for Water Remediation: Recent Advances on Pollutant Sorption, Photodegradation and Filtration. *In Novel Materials and Water Purification: Towards a Sustainable Future*; Kyriakopoulos, G. L., Zamparas, M. G., Eds.; Royal Society of Chemistry, 2024; p. 126-154.

### Theses

- **Kocijan, Martina**; Development of photocatalytic nanocomposite based on titanium dioxide and reduced graphene oxide, Doctoral dissertation, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, 2023.
- **Kocijan, Martina**; Chromatographic methods for the monitoring of photocatalytic degradation of hydroxychloroquine, Master of Science thesis, University of Zagreb, Faculty of Chemical Engineering and Technology, 2018.
- **Kocijan, Martina**; Photolytic degradation of nitrofurantoin, Bachelor of Science thesis, University of Zagreb, Faculty of Chemical Engineering and Technology, 2016.

### Organisation of international conferences and events

Member of organising committee for:

- **19/11/2024**, Workshop on Challenges and Strategies in Degradation of Micro- and Nanoplastics Research, University of Aveiro, Portugal, Organiser: University of Rijeka, Jožef Stefan Institute, position: Organizing Committee, upcoming event
- **19–22/11/2024**, International Conference on Nanotechnology Research and Innovation, University of Aveiro, Portugal, Organiser: University of Aveiro, Portugal, position: Editorial Board, upcoming event
- **9–12/7/2024**, 6th International Conference on Nanomaterials Science and Mechanical Engineering, University of Aveiro, Portugal, Organiser: University of Aveiro, Portugal, position: Editorial Board and Program Committee
- **20–24/11/2023**, International Conference on Nanotechnology Research and Innovation, Organiser: University of Aveiro, Portugal, position: Editorial Board and Technical Program Committee
- **30/11–2/12/2021**, ResearchCult workshop at Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb, Organiser: ResearchCult Project Research Culture in Higher Education in Kosovo, Position: Organizing Committee
- **17–18/9/2020**, NOWELTIES - Advanced Training Course (ATC2): Nanomaterials for wastewater treatment at Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb, Organiser: NOWELTIES, Position: Organizing Committee

Special Issue Editor for:

Guest Editors: Torres-Pinto, André; **Kocijan, Martina**; Velo-Gala, Inmaculada; Integrated Catalytic Oxidation Processes for Water and Wastewater Treatment, *Water*

### Prizes and Awards

- **2024**, Grant for participation in the conference "4th Young Ceramist Network Workshop" awarded by the European Ceramic Society (JECS Trust).
- **2023**, 3rd Place Winner-poster presentation awarded by Young Ceramist Network at 3rd YCN Workshop
- **2023**, Grant for participation in the conference "3rd Young Ceramist Network Workshop" awarded by the European Ceramic Society (JECS Trust).
- **2018**, Magna Cum Laude awarded by University of Zagreb, Faculty of Chemical Engineering and Technology.
- **2018**, Award "Vjera Marjanović-Krajovan" – the best graduate student of Materials Science and Engineering, generation 2017./2018 awarded by KONČAR - Electrical Engineering Institute, Inc.

### **Supervising and mentoring activities**

- **1/10/2020–**, leader for working on the following characterization instruments: glow-discharge optical emission spectroscopy (GDOES) analysis, atomic absorption spectroscopy (AAS), and Fourier-transform infrared spectroscopy (FTIR)
- **1/12/2018–**, leader of student laboratory practicum for the courses Materials I, Materials II, Materials characterization, and Ceramics, concrete, and wood at Department of Materials, Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb

### **Reviewer in scientific journals**

- **2021–**, reviewer for scientific journals: Open Ceramics (2 reviews since February 2021), IEEE Transactions on Nanotechnology (2 reviews since 2021), Materials Today Communications (2 reviews since August 2022), Heliyon (2 reviews since August 2022), Journal of Physics and Chemistry of Solids (1 review in 2022), The European Physical Journal Plus (6 reviews since 2022), Nanomaterials Science & Engineering (1 review in 2022), Journal of Inorganic and Organometallic Polymers and Materials (3 reviews since 2022), Chemistry Africa-A Journal of the Tunisian Chemical Society (15 reviews since 2022), Chemical Engineering Journal (25 reviews since 2023), Arabian Journal of Chemistry (4 reviews since 2023), Energy Sources, Part A: Recovery, Utilization, and Environmental Effects (2 reviews in 2023), Journal of Porous Materials (1 review in 2024), Journal of Taibah University for Science (1 review in 2024), Journal of Sol-Gel Science and Technology (5 reviews in 2024), Catalysis Communications (1 review in 2024), Discover Materials (2 reviews in 2024), Journal of Sustainability Research (1 review in 2024), Journal of Cluster Science (1 review in 2024), Processes (2 reviews in 2024), International Journal of Chemical Engineering (1 review in 2024), Biocatalysis and Agricultural Biotechnology (1 review in 2024), Molecules (2 reviews in 2024), Materials (3 reviews in 2024), Agronomy (1 review in 2024), International Journal of Chemical Engineering (2 reviews in 2024), ChemistrySelect (1 review in 2024).

### **International networks**

- **2024–**, Member of European Photochemistry Association (EPA)
- **2023–**, Member of Royal Society of Chemistry (RSC)
- **2022–**, Member of Young European Catalysis Network (YEuCat)
- **2018–**, Member of European Ceramic Society (ECerS)
- **2018–**, Member of Croatian Ceramic Society (CroCerS)

### **Other education and training, qualifications and skills**

- **2/5/2024-5/5/2024**, 4th YCN Workshop-Writing Retreat, Organiser: EMC and YCN Committee members, Murikanranta Oy in Teisko (Tampere), Finland
- **22/4/2024**, Webinar: MSCA-PF Call 2024, How to apply for MSCA-Postdoctoral Fellowship! Organiser: EURAXESS India, virtual meeting
- **16/4/2024–18/4/2024**, MICROPLASTIC*days*, Explore the World of Microplastic Research! Organiser: University of Ljubljana, Faculty of Chemistry and Chemical Technology, Slovenia, virtual meeting
- **12/6/2023**, Trends and Advances in Operando Spectroscopy, Organiser: Nanomaterials (MDPI) Webinar, virtual meeting.
- **19/4/2023-21/4/2023**, 3rd YCN Workshop, Organiser: University of Aveiro and YCN Committee members, attendance with poster presentation, Aveiro, Portugal
- **1/3/2023**, Sustainable Synthesis of Oxides for Electronics, Photocatalysis and Energy Applications, Organiser: Nanomaterials (MDPI) Webinar, virtual meeting.
- **5/7/2022**, Workshop on Thin Films: Growth, Characterization, Application, Organiser: University of Aveiro, Portugal, virtual meeting.
- **2/2/2022–4/2/2022**, 4th Workshop on Characterization and Analysis of Nanomaterials, Organiser:

University of Aveiro, Portugal, attendance with oral presentation, virtual meeting.

- **6/7/2021**, Workshop on Low-dimensional materials: experiment, theory, application, Organiser: University of Aveiro, Portugal, virtual meeting.
- **5/7/2021**, Seventh Annual PhD Workshop, Study of Mechanical Engineering, Naval Architecture, Aeronautical Engineering and Metallurgical Engineering, Organiser: Faculty of Mechanical Engineering, Naval Architecture, University of Zagreb, Croatia, attendance with oral presentation, virtual meeting.
- **28/6/2021**, Workshop – ‘How to pitch your research/PhD thesis’, Organiser: Faculty of Engineering, University of Porto, Portugal, attendance with pitch, virtual meeting.
- **8/3/2021**, 7th Catalysts Webinar „Women in Catalysts“, Organiser: Catalysts (MDPI), virtual meeting.
- **3/2/2021–5/2/2021**, 3rd Workshop on Characterization and Analysis of Nanomaterials, Organiser: University of Aveiro, Portugal, virtual meeting.
- **19/10/2020–21/10/2020**, 9th DAAAM International Doctoral School, Organiser: DAAAM International Vienna, Vienna University of Technology, Austria, virtual meeting.
- **7/7/2020**, 2nd Workshop on Characterization and Analysis of Nanomaterials, Organiser: University of Aveiro, Portugal, virtual meeting.
- **6/7/2020**, Sixth Annual PhD Workshop, Study of Mechanical Engineering, Naval Architecture, Aeronautical Engineering and Metallurgical Engineering, Organiser: Faculty of Mechanical Engineering, Naval Architecture, University of Zagreb, Croatia, attendance with oral presentation, virtual meeting.
- **9/7/2019**, 1st Workshop on Characterization and Analysis of Nanomaterials and Workshop on Local-scale and magneto-electric measurements in functional nanomaterials, Organiser: University of Aveiro, Portugal.
- **9/5/2019–10/5/2019**, Shimadzu Lab4You with LabSolutions Software, Organiser: Shimadzu and Faculty of Chemical Engineering and Technology, University of Zagreb, Croatia.