



## ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

### DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

#### 1. Basic information

Name, surname:	Juliusz Winiarski
Grade / Title:	DSc Eng, Assoc Prof
Scientific discipline	<b>inżynieria chemiczna / chemical engineering</b>
Faculty:	W3 Wydział Chemiczny / Faculty of Chemistry
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Link to home page and/or research profiles (Google Scholar, ResearchGate, etc.)	<a href="https://techmat.pwr.edu.pl/zespoly/technologie-powierzchni">https://techmat.pwr.edu.pl/zespoly/technologie-powierzchni</a>

#### 2. Publication record

*Up to 10 most important papers published over the period of previous 10 years.*

No.	Description (authors, publication title, journal / conference, DOI)	Publication year
1.	A. Niciejewska, A. Ajmal, M. Pawlyta, M. Marczewski, J. Winiarski, Electrodeposition of Ni–Mo alloy coatings from choline chloride and propylene glycol deep eutectic solvent plating bath. Scientific Reports. 2022, vol. 12, 18531, pp. 1-15.	2022
2.	J. Winiarski, W. Tylus, M. Pawlyta, B. Szczygieł, Titanium anodization in deep eutectic solvents: the effect of anodizing time on the morphology and structure of anodic layers. Applied Surface Science. 2022, vol. 577, 151892, pp. 1-9.	2022
3.	J. Winiarski, A. Niciejewska, M. Górnik, J. Jakubowski, W. Tylus, B. Szczygieł, Titanium anodizing in a choline dihydrogencitrate salt–oxalic acid deep eutectic solvent: a step towards green chemistry in surface finishing of titanium and its alloys. RSC Advances. 2021, vol. 11, 34, pp. 21104-21115.	2021
4.	J. Winiarski, The effect of current density on the structure and mechanical properties of protective Zn–Fe–Mo alloy coatings electrodeposited on a mild steel. Materials Chemistry and Physics. 2020, vol. 239, art. 122258, pp. 1-13.	2020
5.	J. Winiarski, A. Niciejewska, J. Ryl, K. Darowicki, S. Baśladyńska, K. Winiarska, B. Szczygieł, Ni/cerium molybdenum oxide hydrate microflakes composite coatings electrodeposited from choline chloride: ethylene glycol deep eutectic solvent. Materials. 2020, vol. 13, 4, 924, pp. 1-17.	2020
6.	J. Winiarski, B. Cieślikowska, W. Tylus, P. Kunicki, B. Szczygieł, Corrosion of nanocrystalline nickel coatings electrodeposited from choline chloride: ethylene glycol deep eutectic solvent exposed in 0.05 M NaCl solution. Applied Surface Science. 2019, vol. 470, pp. 331-339.	2019
7.	J. Winiarska, R. Klimkiewicz, W. Tylus, A. Sobianowska-Turek, J. Winiarski, B. Szczygieł, I. Szczygieł, Study of the catalytic activity and surface properties of manganese-zinc ferrite prepared from used batteries. Journal of Chemistry. 2019, vol. 2019, art. 5430904, s. 1-14.	2019



8.	J. Winiarski, W. Tylus, A. Lutz, I. De Graeve, B. Szczygieł, The study on the corrosion mechanism of protective ternary Zn-Fe-Mo alloy coatings deposited on carbon steel in 0.5 mol dm <sup>-3</sup> NaCl solution. Corrosion Science. 2018, vol. 138, s. 130-141.	2018
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### 3. Projects and grants

List of the most important 5 projects/grants with basic description including: title, source(s) of funding, name of the call, role in the project (e.g., principal investigator).

1.	Role in the project (e.g., principal investigator, work package leader, etc.)	Principal investigator
	Project title	Selektywne polerowanie stali stopowej typu 304 w przyjaznej środowisku mieszaninie eutektycznej chlorku choliny z kwasem szczawiowym lub cytrynowym.
	Sources of funding	NCN
	Name of the call	Miniatura 2
	Implementation period	2018-2019
2.	Role in the project (e.g., principal investigator, work package leader, etc.)	
	Project title	
	Sources of funding	
	Name of the call	
	Implementation period	
3.	Role in the project (e.g., principal investigator, work package leader, etc.)	
	Project title	
	Sources of funding	
	Name of the call	
	Implementation period	
4.	Role in the project (e.g., principal investigator, work package leader, etc.)	
	Project title	
	Sources of funding	
	Name of the call	
	Implementation period	
5.	Role in the project (e.g., principal investigator, work package leader, etc.)	
	Project title	
	Sources of funding	
	Name of the call	
	Implementation period	

### 4. International experience



*Brief description of international cooperation and experience (e.g., research stays, cooperation with foreign entities, coordination or participation in international projects or programmes, keynote speeches and presentations delivered at renowned international conferences, visiting professor stays, invited lectures).*

No.	Description	Year(s)
1.	Edinburgh Napier University, Scotland. Research stay	13-23 May 2016
2.	Edinburgh Napier University, Scotland. Research stay	20-25 Aug 2016
3.	Vrije Universiteit Brussel, Belgium. Research stay	18-23 Sept 2016
4.	Edinburgh Napier University, Scotland. Research stay	24-28 Apr 2017
5.	Vrije Universiteit Brussel, Belgium. Research stay	25-30 June 2017
6.	Université de Lorraine, France. Research stay+seminar.	5-11 Mar 2023
7.	University of Limerick, Bernal Institute, Ireland. Invited lecture.	20-26 May 2023

## 5. Experience in teaching doctoral students

*Brief description of experience in teaching doctoral students (e.g., courses in doctoral schools and PhD studies, summer/winter schools for doctoral students, tutorials, trainings, etc.).*

No.	Description	Year(s)
1.	Participation in elective lecture "Advanced research techniques in material engineering"	2020-present
2.	Participation in lecture "Recent research trends in discipline"	2020-present

## 6. List of supervised doctoral students

*List of all supervised doctoral students that defended the PhD including: name of the student, dissertation title, year of awarding PhD.*

No.	Name, surname	Dissertation title	Year of awarding PhD
1.	Marek Marczewski	Morfologia powierzchni stali nierdzewnej 316L polerowanej elektrochemicznie w cieczach DES jako zielonych rozpuszczalnikach	2023

## 7. Prizes and awards

*The most important national and international prizes and awards related to research, development and teaching activities.*

No.	Description	Year
1.	Award named after Tadeusz Żak for the best work in the field of electroplating.	2012
2.	Wrocław University of Science and Technology Rector's Award	2022
3.	Bronze badge for long service	2022

## 8. Other significant achievements

*Information on other significant achievements related to research, development and teaching activities.*

> Supervision of 4 PhD students over 2020 to present: two implementation doctorates, one regular doctorate and one external. All theses are related to modern electroplating, surface finishing and functional materials.



- > Promotion of WUST within Polilab activity – participation in video presentations.
- > Organisation of Blended Intensive Programme “ADCERPIC 2023” as a cooperating institution with University of Limerick (IRL) for 2<sup>nd</sup> and 3<sup>rd</sup> degree students.
- > Organisation of Blended Intensive Programme “DESUM 2024” as a cooperating institution with University of Limerick (IRL) for 2<sup>nd</sup> and 3<sup>rd</sup> degree students.
- > Many years of contact with the electroplating and surface finishing plants sector.
- > Many years of contact with research teams in Poland and abroad with access to advanced research techniques necessary in the implementation of doctorates.