


Raimondas KREIVAITIS


Curriculum Vitae




PERSONAL INFORMATION

Date of birth: 1980 08 24

 +370 642 25557

 raimondas.kreivaitis@vdu.lt
raimondaskreivaitis@gmail.com

 Studentu str. 15 A, Akademija,
Kaunas dstr., Lithuania

AUTHOR IDENTIFICATION

ORCID ID: 0000-0003-4104-7676

WORKPLACE AND RESPONSIBILITIES

Vytautas Magnus University
Academy of Agriculture

Senior researcher

EDUCATION

- 2011** Doctor of Science in Environmental Engineering
Aleksandras Stulginskis University, Kaunas
- 2007** Master of Science in Mechanical Engineering
Lithuanian University of Agriculture, Kaunas
- 2005** Bachelor of Science in Mechanical Engineering
Lithuanian University of Agriculture, Kaunas

WORK EXPERIENCE

- 2019 - Current** **SENIOR RESEARCHER**
Vytautas Magnus University, Kaunas
Lithuania
- 2019 - 2020** **ASSOCIATE PROFESSOR**
National Formosa University
Taiwan
- 2018 - 2019** **LECTURER**
University of applied engineering sciences,
Kaunas Lithuania
- 2018 - 2019** **ASSOCIATE PROFESSOR**
Vytautas Magnus University, Kaunas
Lithuania
- 2014 - 2018** **RESEARCHER**
Aleksandras Stulginskis University, Kaunas
Lithuania
- 2015 - 2017** **ASSOCIATE PROFESSOR**
Aleksandras Stulginskis University, Kaunas
Lithuania
- 2012 - 2015** **LECTURER**
Aleksandras Stulginskis University, Kaunas
Lithuania
- 2011 - 2012** **ASSISTANT**
Aleksandras Stulginskis University, Kaunas
Lithuania

LANGUAGE SKILLS

Mother tongue - **Lithuanian**

Foreign Language	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
RUSSIAN	C1	C1	C1	C1	B1
GERMAN	A2	A2	A2	A2	A2
CHINESE	A1		A1		

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SCIENTIFIC ACTIVITY

RESEARCH AREAS

Environmentally friendly base oils; synthesis of ionic liquids and their use for lubrication; nanoparticle-based lubricant additives; evaluation of mechanical and tribological properties of abrasion-resistant coatings.

PARTICIPATION IN SCIENTIFIC PROJECTS

- 2021-current** Investigation of tribological properties of ionic liquid stabilised nanoparticles additive for environmentally friendly lubricants. Research Council of Lithuania.
Position - Principal investigator.
- 2017-2020** An investigation of tribological properties of environmentally friendly ammonium based protic ionic liquids. Research Council of Lithuania.
Position - Principal investigator.
- 2014-2017** COST MP1303 Understanding and controlling nano and mesoscale friction.
Position - project executor.
- 2015-2016** Tribological properties of vegetable based environmentally friendly lubricants. Research Council of Lithuania.
Position - project executor.
- 2012-2016** Training and collaboration on material developments and process improvements in oil and sugar production. „Oil & Sugar“ European Union FP7 program.
Position - project executor.
- 2008-2010** Development and research of magnetic nanoparticle suspensions for tribosystems. High Technology Development Program.
Position - project executor.

PARTICIPATION IN SCIENTIFIC CONFERENCES

The research results have been presented at more than 10 international scientific conferences in Lithuania, Germany, French, Austria, Moldova, Belarus, Taiwan, and Japan.

PUBLICATIONS

He has co-authored more than 60 scientific papers, 23 of which have been published in the Clarivate Analytics Web of Science database journals having citation index.

Co-author of the book's "[Surfactants in Tribology](#)" Volume 4 chapter „Surfactant Influence on Stability and Lubrication Properties of Metal Nanoparticle Suspensions in Oil“.

List of the main topic-related publications

1. **Kreivaitis, Raimondas** ; Kupčinskas, Artūras ; Žunda, Audrius ; Ta, Thi Na; Horng, Jeng Haur. Effect of temperature on the lubrication ability of two ammonium ionic liquids // *Wear*. 2022, vol. 492–493, p. 1-11. doi:10.1016/j.wear.2021.204217.
2. **Kreivaitis, Raimondas** ; Treinytė, Jolanta ; Gumbytė, Milda . Investigation of tribological properties of environmentally friendly ionic liquids as a potential lubricity improving additives for water-based lubricants // *Industrial Lubrication and Tribology*. 2022, t. 74, nr. 3, p. 294 - 301. doi:10.1108/ILT-06-2021-0213.
3. **Kreivaitis, Raimondas** ; Gumbytė, Milda ; Kupčinskas, Artūras ; Kazancev, Kiril ; Makarevičienė, Violeta . Investigating the tribological properties of PILs derived from different ammonium cations and long chain carboxylic acid anion // *Tribology international*. 2020, vol. 141, 2020, p. 1-7. doi:10.1016/j.triboint.2019.105905.
4. **Kreivaitis, Raimondas** ; Gumbytė, Milda ; Kupčinskas, Artūras ; Kazancev, Kiril ; Ta, Thi Na; Horng, Jeng Haur. Investigation of tribological properties of two protic ionic liquids as additives in water for steel– steel and alumina–steel contacts // *Wear*. 2020, vol. 456–457, 2020, p. 1-14. doi:10.1016/j.wear.2020.203390.
5. Kazlauskas, Deividas ; Jankauskas, Vytenis ; **Kreivaitis, Raimondas** ; Tučkutė, Simona . Wear behaviour of PVD coating strengthened WC-Co cutters during milling of oak-wood // *Wear*. 2022, t. 498-499, p. 1 - 12. doi:10.1016/j.wear.2022.204336.
6. Asadauskas, Svajus J; **Kreivaitis, Raimondas** ; Bikulčius, Gedvidas; Grigučevičienė, Asta; Padgurskas, Juozas . Tribological Effects of Cu, Fe and Zn Nano-Particles, Suspended in Mineral and Bio-based Oils // *Lubrication science*. 2016 T. 28, N 3, p. 157-176. doi:10.1002/lis.1307.
7. **Kreivaitis, Raimondas** ; Žunda, Audrius ; Kupčinskas, Artūras ; Jankauskas, Vytenis . A study of tribological behaviour of W-Co and Cu electro-spark alloyed layers under lubricated sliding conditions // *Tribology international*. 2016, Vol. 103, p. 236–242. doi:10.1016/j.triboint.2016.07.010.
8. Padgurskas, Juozas ; **Kreivaitis, Raimondas** ; Rukuiža, Raimundas ; Mihailov, Valentin; Agafii, Vasile; Kriūkienė, Rita; Baltušnikas, Arūnas. Tribological properties of coatings obtained by electro-spark alloying C45 steel surfaces // *Surface and Coatings Technology*. 2017, Vol. 311, p. 90-97. doi:10.1016/j.surfcoat.2016.12.098.
9. **Kreivaitis, Raimondas** ; Gumbytė, Milda ; Kupčinskas, Artūras ; Kazancev, Kiril ; Jankauskas, Vytenis ; Jokubynienė, Vida . Lubricating properties of ammonium-based protolytic ionic liquids in friction pairs based on different metals // *Journal of friction and wear*. 2021, vol. 42, iss. 3, p. 152–159. doi:10.3103/S1068366621030089.
10. Padgurskas, Juozas ; Rukuiža, Raimundas ; Prosyčėvas, Igoris; **Kreivaitis, Raimondas** . Tribological properties of lubricant additives of Fe, Cu and Co nanoparticles // *Tribology international*. 2013 , Vol. 60, p. 224-232. doi:10.1016/j.triboint.2012.10.024.

INTERNSHIPS AND TRAINING

I have worked as an Associate professor at National Formosa University, Taiwan R.O.C. During one year internship, I gave lectures for bachelor's, master and doctoral students, and performed research in the field of tribology.

COST 533 –Training School "Biotribology: basis and trends in medicine, engineering, and its societal impacts" Paris, France.

Summer school "Nanotribology: Theory and applications" Copenhagen, Denmark.

During participation in the EU FP7 program IRSES project "Oil & Sugar" I have secondments in the research and education institutions of Moldova (Institute of applied physics of the academy of science of Moldova), Morocco (University of Errachidia), and Tunisia (University of Sfax).

ERASMUS + internship visits to Austria (Vienna Technical University), Turkey (Istanbul Technical University), and Latvia (Riga Technical University).

MANAGEMENT, LEADERSHIP, AND ORGANISATION SKILLS

I led two LMT-funded research group projects "An investigation of tribological properties of environmentally friendly ammonium based protic ionic liquids" and "Investigation of tribological properties of ionic liquid stabilised nanoparticles additive for environmentally friendly lubricants".

I supervised 3 successfully defended bachelor's and 4 master's theses.

I supervised 5 students according to LMT projects "Promotion of students' scientific activity" and "Development of scientific competence of scientists, other researchers, students through practical scientific activity".

Member of the organizing committee of the BALTRIB international scientific conference.