Daniel Lwanzo Paluku

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Education

MSc in Clean Energy Processes, University FAU Erlangen-Nürnberg

Specialization: Energy Technologies (Materials Science for energy applications)

Erlangen, Germany

BSc in Mechanical and Energy Engineering, Kazan State Power Engineering University. 2017 – 2021

GPA 5.0/5.0 - Red Diploma (Summa cum laude - Graduated with the highest honors) Advisors: Olga V. Soloveva

Summer School on Condensed Matter Physics with Princeton Center for Complex Materials
Princeton University

2020

Diploma in Russian language 2016 – 2017

Kazan National Research Technical University named after A.N. Tupolev – KAI

Kazan, Russia

High School Diploma in Bio-Chemistry, Groupe Scolaire du Mont-Amba 2009 – 2015

(Ranked 1st in Graduating Class among 200 students)

Kinshasa, D.R. Congo

Research Experience

Undergraduate Researcher 2020 – 2021

Using Computational Fluid Dynamics (ANSYS) for the modelization of technological processes

Advisor: Dr. Olga V. Soloveva

Undergraduate Research Experience 2020

Investigated the increase use of condensate instead of highly demineralized water for waste heat boilers Supervisor:Prof. Denis S. Balzamov

Undergraduate Research Experience 2019

Proposed the increase of Renewable Energy distribution in Russia

Supervisor:Prof. Guzel B. Sayfutdinova

Undergraduate Research Experience 2018

Contributed to the first wind farm project in the Republic of Tatarstan, Russia

Supervisor:Prof. Nail F. Timerbaev

Publications & Preprints

S. A. Solovev, O. V. Soloveva **D. L. Paluku**, and A. A. Lamberov. *CFD simulation of the ethylbenzene dehydrogenation reaction in the fixed bed reactor with a cylindrical catalyst of various sizes*. Chemical Product and Process Modeling, 2021.

Link: https://www.degruyter.com/document/doi/10.1515/cppm-2021-0002/html

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D. S. Balzamov, E. Y. Balzamova, V. V. Bronskaya, **D. L. Paluku**, G.I. Oykina, and O. S. Kharitonova. *Increased use of a condensate instead of highly demineralized water to prepare feed water for the waste heat boilers*. Conference Series: Materials Science and Engineering (MSE), 1047 012173. Link: https://iopscience.iop.org/article/10.1088/1757-899X/1047/1/012173

- G. B. Sayfutdinova, and **D. L. Paluku.** *Application of Renewable Energy Sources in Resource Saving Russian Power Engineering.* International Journal of Humanities and Natural Science, April 2019, 4(3): 34–37. Link: http://intjournal.ru/wp-content/uploads/2019/05/Mezhdunarodnyj-ZHurnal-4-3.pdf
- **D. L. Paluku**, N. F. Timerbaev. *Prospects for the development of Wind Energy in The Republic of Tatarstan*. Renewable Energy Sources: Proceedings of the All-Russian Scientific Conference with International Participation and of the XI Scientific Youth School Moscow: MAKS Press. December 2018, 292—296.. Link:https://www.elibrary.ru/item.asp?id=37080369&pff=1

Talks & Conferences

International Anti-Conference "It's possible" at Kazan State Power Engineering University April 2021
Seminar of graduate students of Kazan State Power Engineering University December 2019
BEBUC Scholarship's Conference in Lausanne, Switzerland July 2019
Moscow State University Scientific Conference on Renewable Energy Sources December 2018
Youth Conference in Sharm El Sheikh, Egypt November 2018
Business Conference "Russia – Africa", Ministry of Economy of the Russian Federation March 2018
Russian-Chinese Congress of Young Entrepreneurs in Kazan, Russia September 2017

Awards & Honors

Best Senior Graduate of the Class of 2021 highly involved in scientific activities	2021
Top 4 Best International Students in the Russian Republic of Tatarstan for 2020 among mately 8000 students.	g out of approxi- 2021
Presidential Scholarship of Kazan State Power Engineering University	2019 – 2020
Top 3 Best Students in Material Science in sophomore year among 115 students	2019
Top 5 Best Students in Applied Mechanics in sophomore year among 28 students	2019
Contest winner - Renewable Energy Sources at Moscow State University out of 74 par	rticipants 2018
Gold Medal of - 6th Russian Language International Olympiad for foreign students	2018
Scholarship of the Russian Government for Bachelor Studies in Russia	2016
BEBUC Scholarship German-Congolese NGO "fUNIKIN"	2013 – Present
COMENGA High School Media Challenge Winner, German-African Media Camp	2014

Part Coming Conductor of the Class of any highly involved in a significanticities

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Professional Service & Leadership

Workshop & Symposium Organization

International Anti-Conference "It's possible" at Kazan State Power Engineering University 2021 Initiated the discussion on presenting existing scientific opportunities for international students in Russia. The anti-conference has been featured by the Russian Ministry of Science and Education.

Membership

Vice-President, Association of foreign students, Kazan State Power Engineering University 2019 – 2020

Spokesman of BEBUC Scholarship's External Scholars

BEBUC Scholarship is an excellence Scholarship Program supporting and mentoring young students until they become professors of Universities to renew the academic staffs in the D.R. Congo

Spokesman of the Association of Congolese Students in Kazan, Russia 2017 – 2019

Spokesman for Mont-Amba BEBUC Scholarship's Scholars, Kinshasa, D.R. Congo 2014 – 2015

Volunteering

Tutor Volunteer – World Skills Competition, Kazan, Russia 2019
Tutor Volunteer – Kazan Multi-Sport exposition 2018

Teaching

English and French Teaching appointment Language School Need4speak

2019 - 2020

Communication Skills

Human Languages: Swahili (Native), French (Native), English (Fluent), Russian (Fluent), Lingala (Fluent).

Machine Languages: Python (Pytorch, JAX).

Last updated: October 6, 2021