



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE _____5951_____

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di** Physics Department of the University of Milan, Italy

Scientist- in - charge: Jemal Yimer Damte

[Name and surname]

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Damte
Name	Jemal Yimer

PRESENT OCCUPATION

Appointment	Structure
April 2022-Dec.31/2023	Czech Technical University in Prague (Postdoctoral researcher)

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	Chemsitry	Dilla University	2010
Specialization	Physical Chemsitry	Haramaya University	2014
PhD	Computational Chemistry	National Taiwan University of Science and Technology	2019
Master	Physical Chemsitry	Haramaya University	2014
Degree of medical specialization			
Degree of European specialization			
Other			



REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date registration	of Association	City
05/12/2015	Chemical Society of Ethiopia	Addis Ababa
01/12/2012	Africa Material Research Society and Royal society of chemistry.	Addis Ababa
04/01/2013	Research and Community Service	Jigjiga

FOREIGN LANGUAGES

Languages	level of knowledge
English	Advanced

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2015	PhD Scholarship in National Taiwan University of Science and Technology, Taiwan
2022	Postdoctoral scholarship in Czech Technical University in prague

TRAINING OR RESEARCH ACTIVITY

description of activity
<p>I have a strong background in computational chemistry and materials science, particularly in the field of surface reactions. I have experience with software like VASP, SIESTA, and ABINIT that are valuable for conducting density functional theory (DFT) studies and understanding the behavior of materials at the atomic and molecular level.</p> <p>I am currently doing research on photo-triboelectric energy generators at Czech Technical University. It's an area with potential for innovative energy harvesting and conversion technologies</p>

PROJECT ACTIVITY

Year	Project
2015	Activation of methane and conver to different value added products
2022	Triboelectric nanogenerators for energy production

PATENTS

Patent



CONGRESSES AND SEMINARS

Date	Title	Place
November 1-4, 2017	<ul style="list-style-type: none">The 2017 International Conference on Functional Carbons (ICFC) on	Taipei, Taiwan
December, 2013.	<ul style="list-style-type: none">The 7th International Conference on the Africa material Research Society,	Africa union hall, Addis Ababa
June 27-30, 2016,	<ul style="list-style-type: none">International Symposium on Catalytic Conversions of Biomass	Taipei, Taiwan.
October 30-31 2023	<ul style="list-style-type: none">The 7th Users' Conference of IT4Innovations	Ostrava, Czech republic

PUBLICATIONS

Books
[title, place, publishing house, year ...]
[title, place, publishing house, year ...]
[title, place, publishing house, year ...]

Articles in reviews
1. Methanol decomposition reactions over a boron-doped graphene supported Ru-Pt catalyst, Published to the journal of Royal Society of Chemistry (RSC) Physical Chemistry Chemical Physics, March 14, 2018.
2. B, N- Co-doped Graphene Supported Ir and Pt clusters for methane activation and C-C coupling: A DFT Study. Published to the journal of computational chemistry, October 16, 2019
3. Kinetics and Equilibrium Study of Adsorption of Phenol Red on Teff(EragrosticsTeff) Husk Activated Carbon, International Journal of Innovation andScientific Research, November, 2014.
4. Physico-chemical analysis of drinking water quality at Jigjiga City, Ethiopia, American Journal of Environmental Protection, January, 2015
5. Photo-triboelectric Nanogenerator for green energy production using SIESTA package: submitted to nano energy (elsevier)
6. First Principle Studies of Direct Conversion of Methane to Ethane By means of Non-oxidative Coupling Methods on B, N Co-doped Graphene Surface Decorated by Ir ₁₃ Cluster: submitted



to journal of Physical Chemistry Chemical Physics,

7. Partial Oxidation of Methane to Methanol and Formaldehyde on B, N Co- doped Graphene Surface Decorated by Oxygen Pre-covered Ir₁₃ Cluster: A First Principle Study: submitted to journal of computational chemistry

8. Photo-triboelectric Nanogenerator for gas sensing application

Congress proceedings

OTHER INFORMATION

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date: Czech Technical University in Prague, 08/11/2023