

PERSONAL INFORMATION

Sogand Musivand

 Roma RM, Italy



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Sex Female | Date of birth 25 Dec 1992 | Nationality Iranian

STUDIES APPLIED FOR

PhD student since 2021-01 to 2024 at Sapienza University of Rome

WORK EXPERIENCE

2016–2017 **Laboratory Teacher assistant**
Advanced Biotechnology Lab

2017–2018 **Teacher Assistant**
Kinetics and Reactor Design, Heat Transfer

19 Nov 2017–26 Dec 2018 **Research Assistant**

EDUCATION AND TRAINING

Sep 2020 – January 2024 **Doctoral student in Chemical Processes for Industry and Environment**
sapienza University of Rome, Rome (Italy)
-Department of Chemical Materials and Environment Engineering'
-Thesis subject: plastic wastes management into valuable chemical products through thermochemical processes (HTL and Pyrolysis)

25 Oct 2015–13 May 2018 **Master of Science- Thesis Title: 'Biohydrogen, Acetone, Butanol and Ethanol production from cellulosic substrate by co culture of clostridium Acetobutylicum and Enterobacter aerogenes'**.
Isfahan University of Technology, Isfahan (Iran)
-Work alone or as part of a team to ensure that project deadlines are met
-Interpret project plans, specifications and determine quantities of materials required to gain renewable energy
-Use test instruments to analyse material
-Providing relevant training to junior laboratory

15 Oct 2011–22 Oct 2015 **Bachelor of Science: chemical engineering**
Sahand University of Technology, Sahand, East Azerbaijan Province (Iran)
-Research methods, Thesis Title: 'Chemical treatment of phenolic wastewater '.

- Organic chemistry, analytical chemistry, physical chemistry
- Mass and heat transfer
- Chemical engineering software
- Fundamentals of chemistry, polymer technology and oil engineering

PERSONAL SKILLS

Mother tongue Persian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B1	C1	C1	B2

B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages - Self-assessment grid

Communication skills

- Team work: I have worked in various types of teams from research teams to sport and charity.
- Experienced at giving presentations to large audiences.
- Excellent verbal and written communication skills both in an office environment and with external stakeholders.

Organisational / managerial skills

- Multitasking and Team leadership
- Handle responsibility and The ability to work under pressure
- Creative thinking; Reviewing, reporting, and research

Job-related skills

- Pass an internship at Elixir Pharmaceutical; Working in a research team providing relevant training to wastewater treatment

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Independent user	Independent user	Proficient user

Digital skills - Self-assessment grid

- HYSIS aspen
- Microsoft Project
- Tecplot

ADDITIONAL INFORMATION

Research Interests Renewable Energy
HTL processes

Pyrolysis process
 Monomer recovery from plastic waste
 Synthesis of Nano materials
 Waste water treatment
 Characterization of Nanomaterials
 Biomass pre-treatment

Published Paper in Journal in 2018:

Effects of graphene oxide-silicon oxide hybrid nanomaterials on rheological behavior of water at various time durations and temperatures: Synthesis ...
 R Ranjbarzadeh, A Akhgar, **S Musivand**, M Afrand - Powder technology, 2018 - Elsevier

Published Paper in Journal in 2022:

Biological production of hydrogen and acetone-butanol-ethanol from sugarcane bagasse and rice straw using co-culture of *Enterobacter aerogenes* and ...
 H Tondro, **S Musivand**, H Zilouei, M Bazarganipour... - Biomass and ..., 2020 - Elsevier
 Co-treatment of plastics with subcritical water for valuable chemical and clean solid fuel production
 L Tai, **S Musivand**, B de Caprariis, M Damizia... - Journal of Cleaner ..., 2022 - Elsevier

Hydrotreating of oak wood bio-crude using heterogeneous hydrogen producer over Y zeolite catalyst synthesized from rice husk
 R. Hamidi, Li. Tai, L. Paglia, M. Scarsella, M. Damizia, P. De Filippis, **S. Musivand**, B.DE Caprariis . Energy Conversion and ..., 2022 - Elsevier

Published Paper in Journal in 2023:

Viable Recycling of Polystyrene via Hydrothermal Liquefaction and Pyrolysis
 S Musivand, MP Bracciale, M Damizia, P De Filippis... - Energies, 2023 - mdpi.com

Coupled Biological and Thermochemical Process for Plastic Waste Conversion into Biopolymers
 Marzulli F., **Musivand S.**, Arengi M., De Caprariis B., De Filippis P., Marchetti A., Majone M., Villano M., 2023. Chemical Engineering Transactions, 100, 469-474.

Submitted Papers in Journals

Chemical recycling of eyewear industry waste into cellulose acetate by hydrothermal treatment
 M. P.Bracciale, B.de Caprariis, **S. Musivand**, M. Damizia, P.De Filippis

International conference publications

S.Musivand, H.Zlouei, " A review on Bio Hydrogen production using the co- culture of *Clostridium acetobutylicum* and *Enterobacter aerogenes* ", 7th International Conference ETEC

K. Zargoosh, M. Sabeti, **S. Mosivand**, 24th Iranian Seminar of Analytical Chemistry, Azarbaijan Shahid Madany University, Tabriz 2017

Pyro2022

Chemical recycling of polystyrene to obtain styrene: Comparison between pyrolysis and hydrothermal liquefaction

Effect of ethanol on the hydrothermal liquefaction process and chemical recovery of different polyurethane wastes

Extracurricular activities

-Sport: Swimming, Soccer, Table tennis

-Music: Guitar

-Art: Photography, Chiaroscuro