

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name **LINGYU TAI**
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E-mail **Lingyu.tai@uniroma1.it**

Nationality **China**
Date of birth [REDACTED]

EDUCATION AND TRAINING

- Dates (from – to) **November 2018 – February 2022**
Department of Chemical Engineering, Sapienza university of Rome
Sapienza university of Rome
- Name and type of organisation providing education and training
PhD of Chemical Process for Industry and Environment
- Principal subjects/occupational skills covered
• Research topic
Hydrothermal liquefaction of lignocellulosic biomass for liquid bio-fuel production; Fundamentals studies on the HTL mechanism of the main biomass components. Study of the effect of catalysts and heterogeneous hydrogen donors for the improvement of bio-fuel quality and yield.
Hydrothermal liquefaction of food waste for recovery of valuable chemicals.
Hydrotreating of bio-crude over Ni supported zeolite catalysts.
- Title of qualification awarded
Phd of Chemical Process for Industry and Environment
- Publications
B. de Caprariis, M.P. Bracciale, I. Bavasso, G. Chen, M. Damizia, V. Genova, F. Marra, L. Paglia, G. Pulci, M. Scarsella, L. Tai, P. De Filippis, Unsupported Ni metal catalyst in hydrothermal liquefaction of oak wood: Effect of catalyst surface modification, Sci. Total Environ. 709 (2020) 136215.
L. Tai, B. de Caprariis, M. Scarsella, P. De Filippis, F. Marra, Improved Quality Bio-Crude from Hydrothermal Liquefaction of Oak Wood Assisted by Zero-Valent Metals, Energy & Fuels. 35 (2021) 10023–10034.
B. de Caprariis, M. Scarsella, I. Bavasso, M.P. Bracciale, L. Tai, P. De Filippis, Effect of Ni, Zn and Fe on hydrothermal liquefaction of cellulose: Impact on bio-crude yield and composition, J. Anal. Appl. Pyrolysis. 157 (2021) 105225.
R. Hamidi, L. Tai, L. Paglia, M. Scarsella, M. Damizia, P. De Filippis, S. Musivand, B. de Caprariis. Hydrotreating of oak wood bio-crude using heterogeneous hydrogen producer over Y zeolite catalyst synthesized from rice husk. Energy Conversion and Management. 255 (2022) 115348.
L. Tai, S. Musivand, B. de Caprariis, M. Damizia, R. Hamidi, W. Ma, P. De Filippis. Co-treatment of plastics with subcritical water for valuable chemical and clean solid fuel production. Journal of Cleaner Production. 337(2022) 130529.
L. Tai, R. Hamidi, B. de Caprariis, M. Damizia, L. Paglia, M. Scarsella, R. Karimzadeh, P. De Filippis. Guaiacol hydrotreating with in-situ generated hydrogen over ni/modified zeolite supports. Renewable Energy. 182(2022) 647-658.

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

September 2015 – January 2018
Tianjin university

Environmental engineering

Master of Science in engineering

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

September 2011 – June 2015
Northwest A&F University

Agronomy

Bachelor of Science in Agronomy

PERSONAL SKILLS AND COMPETENCES

Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.

MOTHER TONGUE

MANDARIN

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

ENGLISH

excellent
excellent
excellent

SOCIAL SKILLS AND COMPETENCES

Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.

BASKETBALL PLAYER (AMATEUR)

VOLUNTEER FOR INTERNATIONAL ACADEMIC CONFERENCE (BIOENERGY AND ENVIRONMENT, 2017, TIANJIN, CHINA)

ORGANISATIONAL SKILLS AND COMPETENCES

Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.

AS SUPERVISOR OF ONE MASTER STUDENT AND THREE BACHELOR STUDENTS FOR THEIR LABORATORY WORK. (2019-2021)

TECHNICAL SKILLS AND COMPETENCES

With computers, specific kinds of equipment, machinery, etc.

PEER REVIEWER: ENERGY CONVERSION AND MANAGEMENT, BIOMASS CONVERSION AND BIOREFINERY

Gas chromatography–mass spectrometry,

Elemental analyzer

High performance liquid chromatography

OTHER SKILLS AND COMPETENCES

Competences not mentioned above.

[Describe these competences and indicate where they were acquired.]

ADDITIONAL INFORMATION

[Include here any other information that may be relevant, for example contact persons, references, etc.]

ANNEXES

[List any attached annexes.]