

**Allegato alla domanda di partecipazione**  
**Curriculum formativo, didattico, scientifico e professionale del candidato**

**Dichiarazione sostitutiva di certificazioni Dichiarazione sostitutiva dell'atto di notorietà**

(Art. 46, D.P.R. 28 dicembre 2000 n. 445)

(da sottoscrivere davanti all'impiegato addetto o da presentare o spedire con la fotocopia di un documento di identità)  
(Art. 47, D.P.R. 28 dicembre 2000 n. 445)

Estremi del bando di selezione	665/2022
Informazioni aggiornate al	29/09/2023
Nome e Cognome	Laura Mais
Data di nascita	01/01/1986

Si raccomanda di indicare con precisione tutti gli elementi valutabili ai sensi del bando di selezione (aggiungere o togliere righe secondo necessità).

**Esperienza professionale**

<b>Periodo</b>	<b>Ente</b>	<b>Principali attività e responsabilità</b>
1.10.2022 – 30.09.2023	Università degli Studi di Cagliari	Assegnista di ricerca
1.10.2019 – 30.09.2022	Università degli Studi di Cagliari	Ricercatore T.D. tipologia A
30.07.2015 – 30.09.2019	Università degli Studi di Cagliari	Assegnista di ricerca
Ottobre 2009 – Febbraio 2019	Università degli Studi di Cagliari	Tutor didattico
Aprile 2013 – Luglio 2013	University of Southampton (UK)	PhD visiting researcher
Settembre 2011 – Dicembre 2011	Università degli Studi di Cagliari	Borsista di ricerca

**Istruzione, formazione (es. titoli di studio, certificazioni professionali/linguistiche/informatiche)**

<b>Data</b>	<b>Titolo / Principali tematiche</b>	<b>Ente</b>
26/03/2015	Dottorato di Ricerca	Università degli studi di Cagliari
21/03/2014	B2 - IELTS	British Council
15/04/2011	Laurea Specialistica in Ing. Chimica	Università degli studi di Cagliari
18/02/2009	Laurea triennale in Ing. Chimica	Università degli studi di Cagliari

**Pubblicazioni / Convegni**

Palmas, S., Rodriguez, J., Mais, L., Mascia, M., Herrando, M.C., Vacca, A., Anion exchange membranes: A valuable perspective in emerging technologies of low temperature water electrolysis, <i>Current Opinion in Electrochemistry</i> , 2023, 37, 101178
Palmas S., Vacca A., Mais L., Photoelectrocatalytic degradation of harmful compounds, <i>Photoelectrocatalysis: Fundamentals and Applications</i> , 2022, pp. 265–305

Palmas, S., Vacca, A., Mais, L., Bibliometric analysis on the papers dedicated to microplastics in wastewater treatments, <i>Catalysts</i> , 2021, 11(8), 913
Mais, L., Palmas, S., Mascia, M., Vacca, A., Effect of potential and chlorides on photoelectrochemical removal of diethyl phthalate from water, <i>Catalysts</i> (2021) 11(8), 882
J. Rodríguez, L. Mais, R. Campana, L. Piroddi, M. Mascia, J. Gorauskis, A. Vacca, S. Palmas, Comprehensive characterization of a cost-effective microbial fuel cell with Pt-free catalyst cathode and slip-casted ceramic membrane, <i>International Journal of Hydrogen Energy</i> (2021)
A. Vacca, L. Mais, M. Mascia, E.M. Usai, J. Rodriguez, S. Palmas, Mechanistic insights into 2,4-D photoelectrocatalytic removal from water with TiO <sub>2</sub> Nanotubes under dark and solar light irradiation, <i>Journal of Hazardous Materials</i> (2021) 412, 125202
Palmas, S., Mais, L., Mascia, M., Vacca, A., Trend in using TiO <sub>2</sub> nanotubes as photoelectrodes in PEC processes for wastewater treatment, <i>Current Opinion in Electrochemistry</i> (2021) 100699
Porcu, S., Castellino, M., Roppolo, I., Carbonaro, M., Palmas, S., Mais, L., Casula, M.F., Neretina, S., Hughes R.A., Secci, F., Ricci, P.C., Highly efficient visible light phenyl modified carbon nitride/TiO <sub>2</sub> photocatalyst for environmental applications, <i>Applied Surface Science</i> (2020) 531, 147394
Mais, L., Vacca, A., Mascia, M., Usai E.M., Tronci, S., Palmas, S. Experimental study on the optimisation of azo-dyes removal by photo-electrochemical oxidation with TiO <sub>2</sub> nanotubes, <i>Chemosphere</i> (2020) 248, 125938
Vacca, A., Mais, L., Mascia, M., Usai, E.M., Palmas, S. Design of experiment for the optimization of pesticide removal from wastewater by photo-electrochemical oxidation with TiO <sub>2</sub> nanotubes, <i>Catalysts</i> (2020) 10, 512
Mais, L., Mascia, M., Palmas, S., Vacca, A., Modelling of photo-electrocatalytic behaviour of TiO <sub>2</sub> nanotubes under solar light irradiation, <i>Chemical Engineering Journal</i> (2020) 383, 123136
Mais, L., Palmas, S., Mascia, M., Sechi, E., Casula, M.F., Rodriguez, J., Vacca, A., Porous Ni photocathodes obtained by selective corrosion of Ni-Cu films: Synthesis and photoelectrochemical characterization, <i>Catalysts</i> (2019), 9:453
J. Rodríguez, S. Palmas, M. Sánchez-Molina, E. Amores, L. Mais, R. Campana, Simple and precise approach for determination of Ohmic contribution of diaphragms in alkaline water electrolysis, <i>Membranes</i> , (2019) 9:129
Mais L., Palmas S., Vacca A., Mascia M., Ferrara F., Pettinau A., Catalytic activity of Cu and Cu/Sn electrodes during CO <sub>2</sub> reduction from aqueous media, <i>Chemical Engineering Transactions</i> , (2019) 73:97-102
R. Matarrese, M. Mascia, A. Vacca, L. Mais, E.M. Usai, M. Ghidelli, L. Mascaretti, B.R. Bricchi, V. Russo, C.S. Casari, A. Li Bassi, I. Nova, S. Palmas, Integrated Au/TiO <sub>2</sub> Nanostructured Photoanodes for Photoelectrochemical Organics Degradation, <i>Catalysts</i> , (2019) 9:340
Mais, L., Mascia, M, Palmas, S., Vacca, A. Photoelectrochemical oxidation of phenol with nanostructured TiO <sub>2</sub> -PANI electrodes under solar light irradiation, <i>Separation and Purification Technology</i> , (2019) 208: 153-159
S. Palmas, M. Mascia, A. Vacca, L. Mais, S. Corgiolu, E. Petrucci, Practical aspects on electrochemical disinfection of urban and domestic wastewater, Book chapter, <i>Electrochemical Water and Wastewater Treatment</i> (2018), Pages 421-447.
Aalseth, C.E., Acerbi, F., Agnes, P., Mais L., (...), Zichichi, A., Zuzel, G., Cryogenic Characterization of FBK RGB-HD SiPMs, <i>Journal of Instrumentation</i> , (2017) Volume 12, Issue 9, Article number P09030

Bottino, B., Aalseth, C.E., Acconcia, G., Mais L., (...), Zullo, M., Zuzel, G., The DarkSide experiment, Nuovo Cimento della Societa Italiana di Fisica C, (2017) Volume 40, Issue 1, Article number 52
Mais L., Vacca A., Mascia M., Corgiolu S., Palmas S., Highly ordered TiO <sub>2</sub> -WO <sub>3</sub> modified nanotubes array for photoelectrocatalytic oxidation of methyl orange Chemical Engineering Transactions, (2017) 60:217-222
S. Palmas, P. Ampudia Castresana, L. Mais, A. Vacca, M. Mascia, P.C. Ricci, TiO <sub>2</sub> -WO <sub>3</sub> nanostructured systems for photoelectrochemical applications, RSC Advances, (2016) 6:101671101682

P. Ampudia Castresana, S. Palmas, A. Vacca, M. Mascia, L. Mais, F. Marken, Mixed Oxides for Photo-electrochemical Applications, Chemical Engineering Transactions, (2016) 47:145-150
L. Mais, P. Ampudia, S. Palmas, A. Vacca, M. Mascia, F. Ferrara, Synthesis of Nanostructured Materials for Photoelectrochemical Oxidation of Organic Compounds, Chemical Engineering Transactions, (2016) 47: 157-162
M.J. Martín de Vidales, L. Mais, C. Sáez, P. Cañizares, F.C. Walsh, M. A. Rodrigo, C. de Arruda Rodrigues, C. Ponce de León, Photoelectrocatalytic Oxidation of Methyl Orange on a TiO <sub>2</sub> Nanotubular Anode Using a Flow Cell, Chemical Engineering Technology, (2016) 39: 135-1416
A. Vacca, M. Mascia, L. Mais, S. Palmas, F. Delogu, A. Pinna. On the Electrodeposition of Zirconium from 1-Butyl-1-Methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide on different substrates, Materials and Manufacturing Processes (2016) 31:74-80
Palmas, S., Mascia, M., Vacca, A., Ampudia P., Mais L., Ferrara, F., Pettinau, A., On the behavior of modified TiO <sub>2</sub> nanotubes for a photoanode-driven photoelectrochemical reduction of CO <sub>2</sub> , TechConnect Briefs, Volume: 2, Materials for Energy, Efficiency and Sustainability: Tech Connect Briefs 2015, Published: June 14, 2015, Pages: 128 – 131, ISBN: 978-1-4987-4728-8
L. Mais, M. Mascia, A. Vacca, S. Palmas, F. Delogu. Electrochemical deposition of Cu and Ta from pyrrolidinium based ionic liquid, Journal of Applied Electrochemistry (2015) 45:735-744
A. Vacca, M. Mascia, L. Mais, S. Rizzardini, F. Delogu, S. Palmas. On the Electrodeposition of Niobium from 1-Butyl-1-Methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide at Conductive Diamond Substrates, Electrocatalysis (2014) 5:16-22
M. Mascia, A. Vacca, L. Mais, S. Palmas, E. Musu, F. Delogu. Electrochemical deposition of Cu and Nb from pyrrolidinium based ionic liquid, Thin Solid Films, (2014) 571: 325-331
L. Mais, M. Mascia, A. Vacca, S. Palmas, F. Delogu. Voltammetric Study on the Behaviour of Refractory Metals in ([BMP][TFSA]) Ionic Liquid, Chemical Engineering Transactions, (2014) 41:97-102
A. Vacca, M. Mascia, S. Rizzardini, S. Palmas, L. Mais. Coating of gold substrates with polyaniline through electrografting of aryl diazonium salts, Electrochimica Acta (2014) 126:81–89
A. Vacca, M. Mascia, S. Palmas, L. Mais, S. Rizzardini. On the formation of bromate and chlorate ions during electrolysis with boron doped diamond anode for seawater treatment – Journal of Chemical Technology and Biotechnology (2013) 88: 2244-2251

### Altre attività scientifiche

16/09/2012 – 21/09/2012: 6 <sup>th</sup> European Summer school on electrochemical engineering, Zadar, Croazia
17/07/2014 – 18/07/2014: International Workshop/Summer school on Advanced Nuclear Materials, Gijón, Asturias, Spain
15/02/2016 – 17/02/2016: 3 <sup>rd</sup> SINCEM Winter School, Bologna, Italy

15/12/2020 – 18/12/2020 NiPS Winter School “Powering the Internet of Things 2020” devoted to the topics of Energy Harvesting, Storage, Micro-Power Management and Systems Integration, Dipartimento di Fisica e Geologia, Università di Perugia

**Ulteriori informazioni pertinenti**


Luogo, data e firma  
Cagliari, 29/09/2023