



Curriculum Vitae (CV) **Researcher mobility programme „Mobilitas“**

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|---|--|
| 1. Surname | Välejalg |
| 2. First Name | Õie |
| 3. Current position | senior researcher |
| 4. Current institution | University of Tartu |
| 5. Date of birth | 01.04.1977 |
| 6. Education | <ol style="list-style-type: none">1. 2007 Doctor's Degree, University of Tartu2. 2004-2007 University of Tartu, Department of Chemistry, Ph.D.student3. 1999-2001 University of Tartu, Department of Chemistry, M.Sc. (chemistry) 20014. 1995-1999 University of Tartu, Department of Chemistry, B.Sc. (chemistry) 1999 |
| 7. Research and professional experience | <ol style="list-style-type: none">1. 2008 - University of Tartu, Institute of Chemistry, senior researcher2. 2007 - 2007 Chalmers University of Technology, Gothenburg, Sweden, guest-researcher3. 2004 - 2007 University of Tartu, Institute of Physical Chemistry, researcher4. 2001 - 2004 University of Tartu, Institute of Physical Chemistry, temporary researcher5. 1999 - 2001 Tartu Technologies Ltd., chemist6. 1996 - 1999 Tartu Technologies Ltd. senior laboratory assistant7. 1995 - 1996 Tartu Technologies Ltd. laboratory assistant |
| 8. Honours/awards | |
| 9. Administrative responsibilities | 2004 Member of the International |

Society of Electrochemistry (ISE)

10. Supervised dissertations Cäthlyn Kask, Master's Degree, under supervision, (sup) Simusk, T, Sammal, A, Välejalg, Õ, Energy analysis of a solid oxide fuel cell fed by either ethanol or methane, University of Tartu, Faculty of Physics and Chemistry, Institute of Physical Chemistry
11. Current research interest Thermodynamic analysis of solid oxide fuel cells
12. Received grant funding
13. List of publications

Välejalg, Õ, Andersson, M, P, Ulvaeus, G, Stenbock, K (2008) Thermodynamic analysis of methane fed solid oxide fuel cells: Comparison between proton-conducting electrolyte and oxygen ion-conducting electrolyte. Journal of Power Sources, Vol 183, 2, 682-686

Simusk, T, Pütt, S, **Välejalg, Õ** (2007) The Electrode porosity and the thermodynamic characteristics of high temperature SOFC. ECS Transactions, 1609 – 1616

Simusk, T, Sammal, A, Pütt, S, **Välejalg, Õ**, Paan, P (2007) Hydrogen production by thermocatalytic decomposition of methane over Ni-Al and Ni-Cu-Al catalysts: Effect of calcination temperature. Journal of Power Sources Volume 169, 1, 150-157

Simusk, T, Sammal, A, **Välejalg, Õ** (2005) Electricity from ethanol fed SOFCs: the expectations and technological benefits. International Journal of Hydrogen Energy, Volume 29, 4, 375-379, Fuel Cells

Simusk, T, Sammal, A, **Välejalg, Õ** Paan, P (2005) Heat transfer phenomena in a solid oxide fuel cell: A thermodynamical approach (2004) Chemical Engineering Science Vol 60, 16, 4423-4430

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