



# SisAl Pilot

GA number 869268

## Scientific publications and technical paper list

1. Philipson, Harald; Wallin, Maria; Einarsrud, Kristian Etienne and Tranell, Gabriella, *Kinetics of Silicon Production by Aluminothermic Reduction of Silica Using Aluminum and Aluminum Dross as Reductants* (September 12, 2021). Proceedings of the 16th International Ferro-Alloys Congress (INFACON XVI) 2021, Available at SSRN: <https://ssrn.com/abstract=3922132> or <http://dx.doi.org/10.2139/ssrn.3922132>
2. Tranell, Gabriella; Safarian, Jafar; Wallin, Maria. *SisAl – A New Process for Production of Silicon*. Silicon for the Chemical and Solar Industry XV. Trondheim: Norges teknisk-naturvitenskapelige universitet 2020 ISBN 978-82-997357-9-7. s. 129-139
3. Aikaterini Toli, Georgia Maria Tsaousi, Efthymios Balomenos, Dimitrios Panias, Matthias Heuer, Harald Philipson and Gabriella Tranell. *Sustainable Silicon and High Purity Alumina Production from Secondary Silicon and Aluminium Raw Materials through the Innovative SisAl Technology*, *Mater. Proc.* **2021**, 5(1),85; <https://doi.org/10.3390/materproc2021005085>
4. Kai Tang, Casper van der Eijk, Sylvain Gouttebroze, Qiang Du, Jafar Safarian, Gabriella Tranell, *Rheological properties of Al<sub>2</sub>O<sub>3</sub>-CaO-SiO<sub>2</sub> slags*, *Calphad*, Computer Coupling of Phase Diagrams and Thermochemistry 77 (2022) 102421
5. Sergey Semenov, Raphaël Bayle and Patrick Namy, Numerical modelling of aluminothermic reduction for low carbon silicon production, 34<sup>th</sup> European Modeling & Simulation Symposium, EMSS 2022
6. Javier Bullón Camarasa, *New metallurgical way for the solar silicon production The SisAl project*: Silicon for the Chemical and Solar Industry XVI. Trondheim: Norges teknisk-naturvitenskapelige universitet 2022
7. H. Philipson, K. Blandhol, K. Engvoll, V. Djupvik, M. Wallin, G. Tranell, and T. Haarberg, *Preliminary techno-economic considerations of the SisAl process - closing materials loops through industrial symbiosis*, Silicon for the Chemical and Solar Industry XVI. Trondheim: Norges teknisk-naturvitenskapelige universitet 2022
8. M. Zhu, A.S. Arntsen, J. Safarian, *Silicon recovery via the acid leaching of a Si-Ca-Al alloy produced by the SisAl process*, Silicon for the Chemical and Solar Industry XVI. Trondheim: Norges teknisk-naturvitenskapelige universitet 2022