Prof JJ Terblans
Conferences / Konferensies

ASANTE, J.K.O., ROOS, W.D., TERBLANS, J.J.
A mathematical fit procedure to determine segregation parameters from experimental data of a linear temperature run.

AES-study on TiC thin films to determine Interdiffusion Parameters.

WURTH, E., GREYLING, C.J., TERBLANS, J.J., SWART, H.C.
Impurity segregation during batch annealing of industrial steel coils.

All systems go at Kovsies.

TERBLANS, J.J.
Calculating the bulk vacancy formation energy (Ev) for a Schottky defect in a perfect Cu(111), Cu(100) and a Cu(110) single crystal.

ASANTE, J.K.O., ROOS W.D., TERBLANS, J.J.
A reliable method for finding the equilibrium segregation parameters in a ternary system.

TERBLANS, J.J., VAN WYK, G.N.
From Surface Segregation to Vacancy Formation and Ternary Segregation,

WURTH, E., TERBLANS, J.J., GREYLING, C.J., SWART, H.C.
Oxygen-induced segregation during batch annealing of industrial steel coils,
Proceedings of the 4th International Workshop on Surface and Interface Segregation iThemba LABS, Somerset West, South Africa 43 – 44.

ASANTE, J.K.O., TERBLANS, J.J., ROOS, W.D.
Finding the equilibrium segregation parameters in a Cu(111),Sn,Sb ternary system,
Proceedings of the 4th International Workshop on Surface and Interface Segregation 6 – 7.

JOUBERT, H.D., SWART, H.C., TERBLANS, J.J.
A Monte Carlo Program for simulating segregation and diffusion utilizing chemical potential calculations,

DHLAMINI, M.S., TERBLANS, J.J., TERBLANCHE, C.J., SWART, H.C.
The effect of oxidation on the surface temperature of pure Ti.

JONKER, A.J., ERASMUS, J.J.C., SWART, H.C., TERBLANS, J.J.
Titanium based anodes for the electroplating of MnO2,

JONKER, A.J., ERASMUS, J.J.C., SWART, H.C., TERBLANS, J.J.
Electrolytic preparation of Hydrous Ruthenium oxide layer on Titanium metal,
WURTH, E., GREYLING, C.J., TERBLANS, J.J., SWART, H.C.
The influence of oxygen pressure on oxygen induced surface segregation.

OLIVIER, G.J., TERBLANS, J.J., ROOS, W.D.
The darken surface segregation simulation of a ternary copper-silver-antimony alloy.

ASANTE, J.K.O., ROOS, W.D., TERBLANS, J.J.
Segregation parameters in a (111)Cu,Sn,Sb crystal from constant temperature runs.

TERBLANS, J.J., VAN WYK, G.N.
The segregation kinetics of Sb segregation from the bulk to the surface of a Cu single crystal and the effect the surface orientation has on the segregation kinetics.

DHLAMINI, M.S., TERBLANS, J.J., TERBLANCHE, C.J., SWART, H.C.
Oxidation of commercially pure Ti and its effects on the surface temperature of the material.

TESFAMICAEL, B.Y., ROOS, W.D., TERBLANS, J.J., SWART, H.C., WANG, J.Y.
Determination of the interdiffusion parameters in Cu/Ni thin films by Auger sputter depth profiling.

Journals (accredited) / Navorsingstydskrifte (geakkrediteerde)

Extracting inter-diffusion parameters of TiC from AES depth profiles.

TERBLANS, J.J., VAN WYK, G.N.
The effect of vacancy formation energy on surface segregation kinetics.
Radiation Effects and Defects in Solids 2001 (156) 87-93.

TERBLANS, J.J.
Calculating the bulk vacancy formation energy (Ev) for a Schottky defect in a perfect Cu(111), Cu(100) and a Cu(110) single crystal.
Surface and Interface Analysis 2002; 33(9): 767-770.

TERBLANS, J.J.
The calculated bulk vacancy formation energy (Ev) for a Schottky defect in Al single crystals,

TERBLANS, J.J., VAN WYK, G.N.
Effect of surface orientation on the segregation kinetics of Sb from a Cu single crystal.
Surface and Interface Analysis 2003, ??.
ASANTE, J.K.O., ROOS, W.D., TERBLANS, J.J.
Sequential segregation of Sn and Sb in a Cu(111) single crystal.

HENSON, R.P., VILJOEN, E.C., TERBLANS, J.J., DU PLESSIS, J.
Electronic sample-and-hold circuit to minimize artefacts during high-temperature Auger electron spectroscopy measurements.

GREEFF, A.P., SWART, H.C., LOUW, C.W., TERBLANS, J.J.
The influence of sulphur segregation on the oxidation of industrial FeCrMo steel

TERBLANS, J.J., ERASMUS, W.J., VILJOEN, E.C., DU PLESSIS, J.
Orientation dependence of the surface segregation kinetics in single crystals

VILJOEN, E.C., WANG, J.Y., ERASMUS, W.J., TERBLANS, J.J., DU PLESSIS, J.
Ordered monolayer overstructure formed on Cu surfaces through segregation

WANG, J.Y., DU PLESSIS, J., TERBLANS, J.J., VAN WYK, G.N.
Kinetics near the discontinuous surface transition in the Cu(Ag)(111) binary segregating system

WANG, J.Y., DU PLESSIS, J., TERBLANS, J.J., VAN WYK, G.N.
The discontinuous surface transition in the Cu(111)(Ag) binary segregating system

WANG, J.Y., DU PLESSIS, J., TERBLANS, J.J., VAN WYK, G.N.
Equilibrium surface segregation of silver to the low-index surfaces of a copper single crystal

SWART, H.C., ROOS, W.D., TERBLANS, J.J.
Surface segregating kinetics in a ternary system,

JOUBERT, H.D., SWART, H.C., TERBLANS, J.J.
A Monte Carlo Program for simulating segregation and diffusion utilizing chemical potential calculations,
Surf. Interface Anal. 2004; accepted April

TERBLANS, J.J., VAN WYK, G.N.
Bulk-to-Surface segregation measurements of Sb in Cu(111)(0.08 at.%)Sb and Cu(110)(0.08 at.%)Sb single crystals,
Surface and Interface Analysis; 2004; 36: 000-000.