# TABLE OF CONTENTS

## IN MEMORIAM

012001 Helmut Alexander – A Life for Science – Alive in Science

Wolfgang Schröter, Helmut Gottschalk, Eike R Weber

---

## PAPERS

012002 Dislocation Cores in Silicon: New Aspects from Numerical Simulations

Laurent Pizziagalli, Julien Gaud, Julien Guénolé, Sandrine Brochard

012003 Effect of Electronic Doping on the Plasticity of Homoeptaxial 4H-SiC Single Crystals

J L Demenet, M Amor, A Mazzi, J Rabier

012004 Characterisation of Dislocations in ZnO by X-Ray Imaging

N Burle, F Bazin, A Joncheure, P Germain, O Feuillet

012005 Investigation of Non-decorated Glide Dislocations by Infra-red Light Scattering Tomography

V Monier, O Kononchuk, L Copello, B Pichaud

012006 Effects of Speckle in Makyoh Topography for the Studies of Extended Defects

Ferenc Biasz

012007 Indentation-induced Dislocations and Cracks in (0001) Freestanding and Epitaxial GaN

I Ratschinski, H S Leiper, W Heyroth, W Fränzel, O Moutanabbie, R Hammer, M Jurisch

012008 Identification of Dislocation-related Luminescence Participating Levels in Silicon by DLTS and Pulsed-CL Profiling

Anton Bondarenko, Oleg Vyvenko, Ivan Isakov

012009 Giant Poole-Frenkel Effect for the Shallow Dislocation-related Hole Traps in Silicon

M Trushin, O Vyvenko, V Vdovin, M Kittler

012010 Electrical Levels of Dislocation Networks in p- and n-type Si

I Isakov, A Bondarenko, O Vyvenko, V Vdovin, E Ubyivovk, O Kononchuk

012011 Behaviour of Oxygen-related Thermal Donors in Ge Crystals Czochralski-grown from the Melt Covered Fully by B2O3

Toshinari Taishi, Yoshito Hashimoto, Hideaki Ise, Yu Murao, Takayuki Ohsumi, Yutaka Ohno, Ichiro Yonenaga

012012 Interfacial Sources of Extended Defects in Nonpolar and Semipolar III-nitride Semiconductors

G P Dimitrakopoulos

012013 EBIC Investigation of InGaN/GaN Multiple Quantum Well Structures Irradiated with Low Energy Electrons

P S Vorgets, E B Yakimov

012014 Photoluminescence from AlInAs N Layers Doped with TbIons

Pascal Gehring, Ye Weng, Zhenyi Wu, Horst P Strunk

012015 A Qualitative Semi-classical Treatment of an Isolated Semi-polar Quantum Dot

Toby D Young

012016 Erbium Environments in Erbium-silicon/silica Light Emitting Nanostructures

R J Kashihara, U Banger, I F Crow, M P Hellins

012017 Structure and Properties of Dislocations in Interfaces of Bonded Silicon Wafers

M Rieche, M Kittler, R Schulz, A Hänkel, T Argüirov

012018 Deformation Slip and Twinning in Bulk and Nanocrystalline Semiconductors

Maryam Zahiri-Azar, Pirroza Pirouz, Peter D Langerdöf

012019 Luminescence of SiC Films Grown by a Vapor Phase Reaction

E A Steinman, E B Yakimov, K N Filanov, A N Tereshchenko

012020 Radiation Properties of Dislocations Created by Plastic Deformation of Si Under High Pressure and Low Temperature

A N Tereshchenko, E A Steinman, J Robier

012021 Room Temperature Luminescence from Germanium

T Argüirov, M Kittler, N Y Abrahamov

012022 Propagation and Interactions of Cracks in Si Induced by H Supply Into He-filled Cracks

S Rebo, P J Barbot, M F Beaufort, P F P Fitchner