CONTENTS

B. Andresen:
The metallurgical silicon process revisited …….. 11

H. Tveit, K.H. Berget, M. Førde Møll:
The silicon process – the need for a major upgrade of the internal environment and fugitive emissions…… 25

M. Breidenthal**:**
Changing environment, health and safety (EHS) culture in Chinese heavy industry. …….. 35

J. Safarian, M.Tangstad:
Vacuum behaviour of the dissolved elements in molten silicon …… 41

H. M. T. Goto, B. S. Parreiras, A. Pujatti, M. E. Lemos, G. A. Rios, A. P. Portela, A. G. O. Silva, E. C. Fernandes, A. I Masuko:
Improving overall plant effectiveness through TPM methodology at Dow Corning Metais do Pará …….. 51

J.-P. Mai, G. Raabe, J. Koehler:
Production of metallurgical grade silicon by microwave heating …….. 65

O.V. Chemezov, O.N. Vinogradov-Jabrov, A.P. Apisarov, A.V. Isakov, S.V. Plaxin, V.B. Malkov, Yu.P. Zaikov:
Structure nano- and micro-crystalline silicon deposits obtained by electrolytic refining in the KCl-CsCl-KF-K_2SiF_6 melt 71

M. Barati, S. Sarder, M. Johnston, Y. Chaugule, A. McLean:
An integrated process for synthesis of high purity silicon from silica fume …….. 79

S. Kongmany, G.-B. Shim, O-B. Yang:
Hydrodechlorination of silicon tetrachloride to trichlorosilane ……... 89

A. Aguilera-Alvarado, J.A. Cervantes-Jauregai, E. Leon-Rodríguez, R. Pérez-Alonso:
CFD hydrodynamics Study for HCl(g) removal in TEOS synthesis for three different reactor configurations ……. 97

L. Mendez- , A. Rodríguez, M. Dolores Romero, G. Ovejero:
Modelling and simulation of silicon hydrochlorination in a fluidized bed reactor …… 115

Ju Young Lee, Hee Young Kim, Yong-Ki Park, Won Choon Choi, Na Young Kang, Min Ku Jeon, O-Bong Yang:
Catalytic hydrodechlorination for converting silicon tetrachloride(STC) to trichlorosilane(TCS) …… 139

N. Auner, B. Pandey:
Polysilanes – backbones for new silicon based technologies …… 141

V. Stanjek, R Weidner:
Alpha – Silanes 157

J. Nyhus:
Solar grade silicon - History, chemistry and standardization ……. 169

J. Bullon, R. Ordás, T. Margaria, A. Miranda, J. M. Miguez, A. Perez, A. Souto:
Ferrosolar project, situation and perspectives …… 179

R. Kvande:
Solar cells manufactured from silicon made by the Solsilc process …… 191

K. Morita, Y. Nishi, Y. Ohshima, X. Ma and Y. Kang:
Growth control of Si crystals during solidification of Si-based melts … 203

K. Putyera, X. Wang, J. Liu, D. Leblanc,
Mapping of trace elements in compensated silicon samples under dynamic conditions ……. 211

A. Podolian, A. Nadtochiy, O. Korotchenkov, T. Shevchenko, V. Schlosser, J. Schmid, E. Kancsar,
The potential of sonicated water in the cleaning processes of silicon wafers: Current challenges and future prospects …….. 221

G. Schüssler:
Development of silicon single crystals. A personal view on innovation and innovative silicon future ……. 233

T. Veltkamp:
Wafer-based crystalline silicon modules at 1 €/wp: final results from the crystalclear integrated project ……..……..... 251

Hee Young Kim, Kyung Koo Yoon, Yong-Ki Park and Won Choon Choi:
Continual preparation of polysilicon granules with a new fluidized bed deposition process ……... 259

G. del Coso, C. del Cañizo, A. Luque,:
How to diminish the radiation loss in a Siemens- type reactor ……. 261

S. Reber, S. Riepe:
UMG-Silicon: A scientific view on the status and challenges for UMG-Silicon on its way to high volume application ……. 269

M. Kambara and T. Yoshida:
High yield silicon deposition under mesoplasma condition for a next generation Siemens technology …… 271

W. O. Filtvedt, A. Holt:
Use of FBR technology for production of silicon feedstock …….. 279

D. Leblanc, K. Putyera:
New resistivity model for silicon according to the weak electrolyte solution theory …….. 285

K. Petter, Y. Ludwig, R. Bakowskie, M. Hlusiak, S. Diez, L. Ritz, R. Lantzsch, S. Rupp, A. Freudenberg, S. Scholz, V. Hoffmann:
Latest results on production of solar cells from UMG-Si feedstock…….. 305

N. Nemchinova:
The study of metallurgical silicon refined by crystallization methods ….. 315

J. de Linde:
Silicon - opportunities and challenges in a new decade ……. 325