

.....	1
.....	2
.....	3
.....	5
.....	6
.....	8
.....	9
.....	10
.....	11
.....	12
.....	13
.....	14
.....	15
.....	16
.....	17
.....	18
.....	19
.....	20
.....	21
.....	22
.....	23
.....	24
.....	25
.....	26
.....	27
.....	28
.....	29
.....	30

2012 2 26

2011 12

5

2

1

1

2

"

"



2012 4 23

Journal of Iron and Steel Research

International

TMS

60

2

3

2

“ASP

”

“

DP/TRIP

”

2

1

”

”

”

”



2012 5 31

Chris Pistorius Shouyi Sun Lauri Holappa

Chris Pistorius, 1987 Pretoria 1988
1991 1991 2008
2002 5 2008

6

Shouyi Sun,

CSIRO

Lauri Holappa, 1964 1970 1979
2009 AIST ·F·

Calcium modification of alumina and spinel inclusions Chris Pistorius
Research on slags and properties of high temperature melts Shouyi Sun
Improving Antimony Production At Hillgrove Gold Mine Steven Wright
On Interaction between Slag and Steel in Continuous Casting Tundish Lauri Holappa

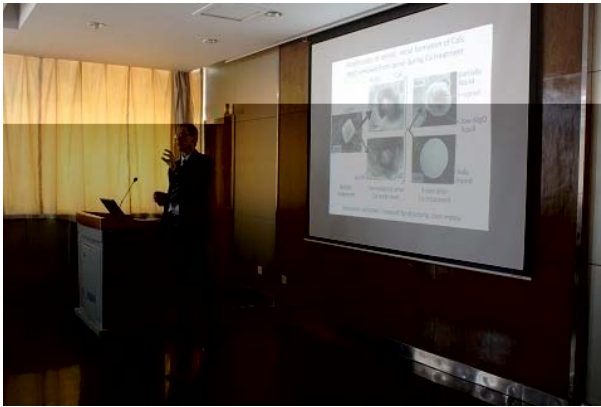
Chris Pistorius “ Calcium modification of alumina and spinel inclusions”

Shouyi Sun “Research on slags and properties of high temperature melts”

CSIRO CSIRO

Steven Wright “Improving Antimony Production At Hillgrove Gold Mine”

Lauri Holappa “ On Interaction between Slag and Steel in Continuous Casting Tundish”



Chris Pistorius



Shouyi Sun



Steven Wright



Lauri Holappa



2012 7 3

1960

,

"

1982 7

1986. 5

1994. 12

-

Uni versi tät Erl angen-Nürnberg

2010. 7"

"

2010. 10



5

70

3

1

2

Steve Pavell

/

2009

1

"

"

2012 9 14

Vladimir Tsepelev Patrice Chartrand

Vladimir Tsepelev

1800

400

30

Patrice Chartrand

FactSage

(Al, Mg)

2007

2007 Grand Prix Alcan

The Optimum Regime of Annealing Amorphous Ribbons

Modeling of Cryolitic System for Al Reduction Cells: Coupled-thermodynamic-physical Property Models

Vladimir Tsepelev

" The Optimum Regime of Annealing Amorphous Ribbons"

Patrice Chartrand

" Modeling of Cryolitic System for Al Reduction Cells: Coupled-thermodynamic-physical Property Models"



Vladimir Tsepelev

Patrice Chartrand



Vladimir Tsepelev

Patrice Chartrand



2012 9 27

1988 1988 1999 1985
1997 1998 1999 2007
2003
2004 2006 2007 8
2002 2007
2009 5 " " 2009 10 " "
2009 10 " "
2010 8 2010 4 " "
2012 9

ISIJ International

18

"

"



2012 12 4

Kim. Seon Hyo

Kim,Seon Hyo	1977	1979
	1987	-
1996-1997	-	2003
POSTECH		

Implication of Thermodynamics to Materials Processing Engineers



2013 4 19

Christopher Cullen ()

1967

1977

2003

The Old Needham Question and a New Needham Question: Long-term Issues in Chinese Science and Technology Development

" "

" "

" "

" "

" 21

" " New Needham Question"



2013 4 27

“ ”

230

“ 2006 ”

1

2002 “

”



2013 6 28

Laurentiu Nastac

Laurentiu Nastac

1985

1993

1995

1996 2011

CTC



Nastac

MMNCS(Metal-matrix-nano-composite

) UST(Ultrasonic Treatment)

MMNCS UST

Ansys

Fluent CFD

A356

MMNCs

2013 9 24

Ramana G. Reddy

Innovations in Materials Processing

R. G. Reddy

R. G. Reddy



R. G. Reddy



R. G. Reddy



2013 10 7 -9

Michael Notis

Michael Notis

1969

X

X

HXRF

Michael Notis

X

X

"

30%wt "

40%wt

Notis

Notis

HXRF

Isfiya

Qumran

Tyrian Shekels

Judean

- -



Notis



Notis

2013 12 2

2009 2013

2013

'Publishing for China' Which Covers the RSC Publishing, Chemistry in China
and Others

1841

RSC

RSC

RSC

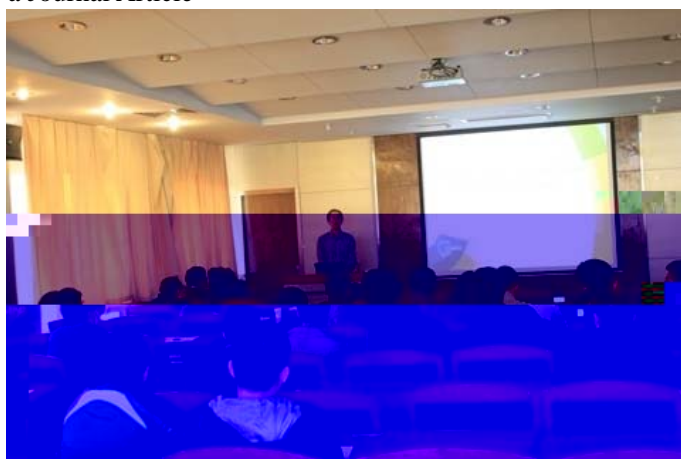
"

"

Whites Group writing a paper

Tips for writing

a Journal Article



2014 3 20

1991

1996

863 973



2014 4 28

“ 700

”

NEA/TC2



2014 4 28

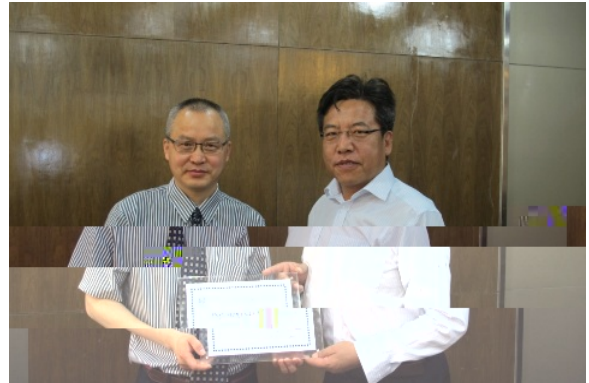
1984 () 1984
1989 1989
Y A Chang 1994 CompuTherm
(ASM) TMS

——Pandat



2014 5 21

1989 7 1992 2



2014 5 26

1981 1984
1985 1989 1995
(McMaster University) 1995 10 1997 12
(Atlas Specialty Steels, Canada) 1998
(ArceloMittal) ()
(BOF, KOBM)
(COREX, FINEX, AISI/DOE, HISMELT, RHF, ITmk3...)
() " (KOBM) ”
2013 “ ”
“Steelie - 2013” ”
2009 “ ”

+VD

IF



2014 5 30

1976 GIO 2000 1981
1982 1985 MEFOS 1992 1992
1992 120
" " " "
" " (Chipman Award)



2014 7 18

Seon-Hyo Kim

Seon-hyo Kim(), 1977 1979
 1986
 1987 1 1987 8 1987
 2003 - (UIUC) (1)
 (2) (
) (3) Ti, Mg Zr

Variation of Viscosity and Heat Transfer Properties of Conventional Mold Flux
 with Basicity and Additives

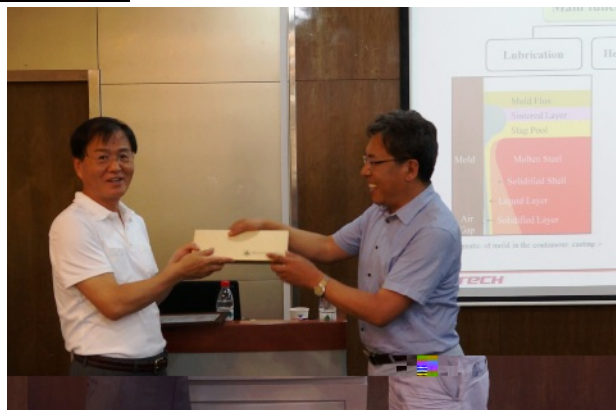
Li₂O B₂O₃

Kim



Seon-Hyo Kim

Seon-Hyo Kim



2014 10 13 -16

Jung-wook Cho

Jung-wook Cho

GIFT

Cho

1989 2

1991 2

1998 10

Cho

1991 2

2012 11

POSCO

TWIP

Metallurgical and

Materials Transactions B

Key Reader

Introduction to Continuous Casting Process from the View of Engineering

Thermophysical Properties of Mold Fluxes for Continuous Casting of Steels

Melt Crystallization of Mold Fluxes

Olidification Structure Refining of High Manganese TWIP Steel

Cho

Cho

CaO-SiO₂

Cho

CaO-Al₂O₃

TRIP

CaO-Al₂O₃

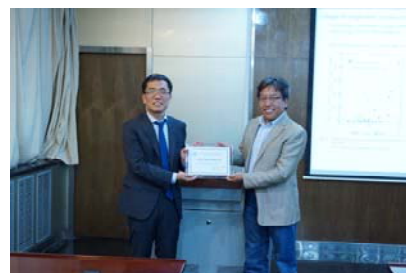
TRIP

Cho

TWIP



Jung-wook Cho



Jung-wook Cho

2014 10 31

(Shigehiro Nishijima)

(Yasuzo Sakai)

(Shigehiro Nishijima)

1982

2015 4 21

Jean-Marie Drezet

Jean-Marie Drezet

Empact and Vircast 2009

2011

In situ XRD casting in Al alloys to determine rigidity temperature

Impact of precipitation during quenching on internal stress generation in thick AA2xxx and AA7xxx industrial components

Jean-Marie Drezet

Jean-Marie

Drezet



Jean-Marie Drezet

Jean-Marie Drezet



2015 5 15

Youn-Bae Kang

Youn-Bae Kang 1998 2000 2005
2005 2009
2009 Kang
(1) (2) (3)
(4) 70 SCI 50

2014 Young professional technical division poster award, EPD division,
TMS 2013 One of developers of 100 future leading technologies for the Korean industries
by2020, National Academy of Engineering of Korea Young scientist award, Korean Institute of
Metals and Materials

Research activities relevant to steelmaking in GIFT

Youn-Bae Kang Mn-Ti-Si
Mn-Ti-Si
Ti2O3



Youn-Bae Kang

Youn-Bae Kang



2015 5 15

Mansoor Barati

Mansoor Barati		2005	
	2006		1
	2	3	4
Electrochimica Acta	Journal of Alloys and Compounds	Minerals	
Engineering Journal of The Electrochemical Society	JOM	Energy	Metallurgical and Materials
Transactions B	100	" TMS	"
"	"	"	"

Visualization for Measurements and Understanding of Energy Recovery from Slag and DRI- Slag Interactions

Mansoor Barati

Barati



Mansoor Barati

Mansoor Barati



2015 5 14

1015

Dieter Senk

Dieter Senk

15

2001

1982-2001

1982-1984

1985

1984-1989

1995-1996

1997-2001

1976-1981

Technical University of

Clausthal

Continuous Casting Way of Unlimited Options

Dieter Senk



Dieter Senk

Dieter Senk



2015 5 27

Pedro Rivera

Pedro Rivera SKF

10 Acta Materialia, Scripta Materialia, Philosophical Magazine Letters Computational
Materials Science

2

Fatigue in bearings: phenomenology and modelling

Pedro Rivera



Pedro Rivera

Pedro Rivera



2015 5 29

ArcelorMittal Dofasco

KOBM

VD

IF

ArcelorMittal

2013

" Steelie Award"

" Hunt-Kelly Outstanding Paper Award" (

" Charles H. Herty Jr.Award"

KOBM

KOBM

KOBM

KOBM

