

1. Record Nr.	UNINA9910465346103321
Titolo	Advances in metallurgical and mining engineering : selected, peer reviewed papers from the International Conference on Chemical, Material and Metallurgical Engineering (ICCMME 2011), December 23-25, 2011, Beihai, China / / edited by Hongxi Zhu and Linjiang Wang
Pubbl/distr/stampa	Zurich, Switzerland : , : Trans Tech Publications, , 2012 ©2012
ISBN	3-03813-767-7
Descrizione fisica	1 online resource (889 p.)
Collana	Advanced Materials Research, , 1022-6680 ; ; Volume 402
Altri autori (Persone)	ZhuHongxi WangLinjiang
Disciplina	669
Soggetti	Metallurgy Mining engineering Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Advances in Metallurgical and Mining Engineering; Preface and Organizing Committee; Table of Contents; Chapter 1: Metallurgical Physical Chemistry; Molecular Identification of a Strain Acidithiobacillus Ferrooxidans and its Biological Characteristics; Kinetics of Leaching Vanadium with Sulfuric Acid from Carbonaceous Shale Containing Vanadium; Influencing Factors and Mechanism of Cobalt Redissolution from Zinc Sulphate Solution; Modeling Investigation of the Oxidation Kinetics of Copper and Aluminum Alloys Determination of Surface Tension of the Freeze Slag in Reaction Shaft of Flash Smelting Furnace Calculating Model of FetO Activity in Alkali-Containing BF Slag; Recovery of Valuable Metals from Copper Slag by Hydrometallurgy; Effect Evaluation of Inhibitor to Barium Sulfate and Strontium Sulfate; Physical Simulation on the Liquid Metal Flow in FC-Mold of Slab Continuous Casting; Mechanism of Precipitate Removal of Arsenic and Bismuth Impurities from Copper Electrolyte by Antimony; Leaching Kinetics and Separation of Antimony and Arsenic from Arsenic Alkali Residue

Research on Detoxifying Treatment to Chromium Slag Comparison
Study of the Electrochemical Behavior of Vanadate in NaOH and KOH
Solutions; Analysis of Factors Affecting Carbon Content Detection of
Ferrochrome Alloy Using LIPS Method; Detection of Carbon in Ferroalloy
Using Internal Standard Method Based on LIBS; Chapter 2: Ferrous
Metallurgy; Numerical Simulation of Flow-Induced Wall Shear Stress of
a One Strand Tundish Design; Experimental Investigation of the
Viscosities of High Titanium Containing Slags with Low Mass Ratio of
CaO to SiO₂

Application of Data Mining in BOF Steelmaking Endpoint Control so
thermal Experimental Study on the Effects of Converter Bath Shape on
the Melt Mixing; Migration Principle of Chlorine in BF Production;
Causes and Countermeasures of Cracking in Cogging Process of 40Cr
Bloom; Application of Simulated Annealing Algorithm in Sintering
Burdening Optimization; Influence of Casting Speed on Solidification
Process and Solidification Structure of Continuously Cast Bloom; Effects
of Operation Parameters on Desulphurization of Hot Metal with Passive
Magnesium and Calcium Oxide in CSP Plant of WISCO

High-Temperature Oxidation Kinetics of Galvalume-Coated Steel Sheet
Influence of Hollow Electrode Ar-CH₄ Co-Injection on Temperature in a
Ladle Furnace with Alternating Current Supply; MEST of Round Blooms
with Different Foot Roll Pitch Designing for Peritectic Steel Casting;
Research and Application of the New Technologies on Blast Furnace at
Shougang Qiangang Plant; Numerical Simulation and Optimization
Practice of Oxygen Lance for Converter Steelmaking; Research on
Thermal State of Mould Copper Plate with Different Heat Transfer
Coefficient

Study on the Influence Factor of the Caustic Calcined Dolomite Based
Compound Desulfurizer Melt Point

Sommario/riassunto

The present 168 peer-reviewed papers are grouped into 8 chapters:
Metallurgical Physical Chemistry, Ferrous Metallurgy, Metallurgy of
Non-Ferrous Metals, Metallurgical Materials and Environmental
Engineering, Mineral Processing, Mining Engineering, Mining
Environmental Engineering, Mine Surveying and Safety Engineering. The
contents will be of great interest to anyone working in these fields.
Review from Book News Inc.: Over 150 papers cover metallurgical
physical chemistry, ferrous metallurgy, the metallurgy of non-ferrous
metals, metallurgy materials and environmental engineering, mineral pr
