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A000003	Raw Materials	Refractory Raw Materials - Current Trends and Prospects to 2024 Kerry Satterthwaite*
A000004	Testing of Refractories	Refractory Testing Standards - Current Gaps and Future Developments Philip Walls*
C000005	Advances in Manufacturing, Installation and Equipment	Manufacturing of Refractory Brick under Vacuum ('Depression') Parvaiz Habibullah Habibullah, Pervaiz Habibullah Habibullah
C000006	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Vibrational Determination of Gas Purging Regime and Efficiency in a Water Model and Validation by a High-speed Camera Bernd Trummer*, Christian Manhart, Wolfgang Fellner
C000007	High Temperature Engineering Ceramics	Sintering and Fracture Toughness Measurement of CaO-Al₂O₃-SiO₂ Ternary Compounds along Gehlenite-Anorthite Tie Line Kouichi Yasuda*, Dyah Yunitasari
C000008	Refractories for Iron and Steel Making - Hot Metal Transport	Development of Refractories for Torpedo Ladles Ricardo Couto*, Braulo Hemetrio, Roselaine Magalhaes, Marco Antonio Quintela
C000009	Industrial Refractories Applications	Monolithic Basic Unshaped Materials for the Steel Industry Patrick Tassot *, Thomas Schemmel
C000010	Refractories for Iron and Steel Making -Continuous Casting	The Design of Composite Ladle Nozzle with Excellent Thermal Shock Resistance Liu Guoqi*, Li Hongxia, Yang Wengang, Qianfan, Yu Jianbin, Ma Weikui
C000011	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Indigenously Developed Mag Dolo Refractory for Steel Ladles as an Alternate to Imported Mag-C - A Risk Mitigation Strategy Kshitish Kumar Jena, Amit Banerjee, Navneet Sinha, Brijender Singh*, Subir Biswas, Sudhansu Pathak
C000012	Collaboration among Customers, Manufactures and Academia	Improvement in the Performance of Dry Vibratable Mass in Tata Steel, Tundish Brijender Singh, Navneet Sinha, Amit Banerjee, Sachi Dulal Majumdar*, Samit Sengupta, Subhendu Chatterjee , Amitava Polley
C000013	Industrial Refractories Applications	Characteristics of Zirconia Refractories for High Temperature Melting AKM Aziz Ahamed*, Kouichi Ando, Takashi Hori
C000014	New Development	Design of Hydratable Alumina-bonded Castables with Optimized Drying Behavior A. P. Luz*, B. P. Bezerra, M. H. Moreira, V. C. Pandolfelli
C000015	Collaboration among Customers, Manufactures and Academia	Earlier Sintering of High-alumina Refractory Castables by Using Alternative Calcium Sources A. P. Luz*, L.B. Consoni, C. Pagliosa, V. C. Pandolfelli
C000016	Collaboration among Customers, Manufactures and Academia	Refractory without Carbon for the Production of Ultra-low Carbon Steels Loise Bonfim Zaidan*, Carlos Pagliosa, Adao Adelcio Campos, Robson Arnaldo Dettogne Nascimento, Marlon Jose dos Anjos Silva, Marcio Jose Verissimo
C000017	Refractories for Iron and Steel Making -Continuous Casting	Reactivity of Metallic Additives and Their Influence on the Key Thermomechanical Properties of Steel Flow Control Refractories Andrzej Warcha*, Damien Andre, Duane DeBastiani, Marc Huger, Stefano Martelli, Stephane Mazerat, Severine Romero Baivier
C000018	Refractories for Iron and Steel Making -Continuous Casting	Surface Abrasion Appeared on the Slide Gate Plate Keiichiro Akamine*, Arito Mizobe, Kiyoshi Goto, Katsumi Morikawa
C000019	Refractories for Iron and Steel Making - Hot Metal Transport	Performance Optimization of Torpedo Ladles Through Innovative Product Development and Design Prof. Dr. Helge Jansen, Dr. Thomas Schemmel*, Dr. Ujjwal Sengupta
C000020	Refractories for Iron and Steel Making -Continuous Casting	Mechanical and Physical Characterization of Al₂O₃-C Foam Filters Produced by Distinct Processing Routes: The Role of the Strut Morphology Bruno Luchini, Enrico Storti*, Tony Wetzig, Christoph Settgast, Martin Abendroth, Jana Hubalkova
C000021	Advances in Manufacturing, Installation and Equipment	Study on Explosion Resistance of Dense Refractory Castables with Different Bonding Systems Zhanmin Wang *, Xiying Cao, Xujing Yang, Lingyan Yu, Jianjun Chen
C000023	Refractories for Iron and Steel Making -Continuous Casting	Development of High Performance Slide Gate Plate with Composite Structure Zenta Ohmaru*, Kenichi Oki, Yuji Nakamoto, Hidetoshi Kamio, Katsumi Morikawa
C000024	Raw Materials	Influence of CA₂ Lightweight Raw Materials on Properties of Corundum-based Castables with TiO₂ Additions Danyang Zhang, Chunxue Li, Jianying Gao, Bruno Touzo, Wenjie Yuan*

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C000025	New Development	The Application of Ti-Max Phase in Low Carbon Refractories and Elucidating Its Related Role Junfeng Chen*, Nan Li, Yaowu Wei, Shaowei Zhang
C000027	Testing of Refractories	Analysis of Thermal Shock Behavior by Digital Image Correlation Method and Finite Element Method Hidetoshi Kamio*, Ryota Hosogi, Yoichi Tsuji, Koji Goda, Katsumi Morikawa
C000028	Collaboration among Customers, Manufactures and Academia	Benefits of the Addition of a Structural Insulation Layer in the Refractory Lining of Rotary Kiln: Thermomechanical Modeling and In-plant Results Dan Cole, Eric Stover, Shengli Jin, Lionel Rebouillat*
C000030	Refractory Engineering Systems and Design	Optimization of Magnesia Castables by Introduction of Pre-synthesized Magnesium Silicate Hydrate Yu Zhang*, Yawei Li, Junfeng Chen
C000034	New Development	Slag Resistance of No-Cement Refractory Castables Hong Peng*, Jun Liu, Qinghu Wang, Bjorn Myhre, Yawei Li
C000035	Refractories for Glass and Cement Production	Energy Saving Design with High Thermal Resisting and Insulating Monolithic Refractory around Glass Furnace Toshiro Tanimoto*
C000037	Refractories for Iron and Steel Making -Continuous Casting	Tundish Upper Nozzle with Gas Purging Function by Multi-layered Structure Tatsuya Ouchi*, Masaki Yamamoto, Taro Makino, Arito Mizobe
C000038	Basic Science	The Compressive Strength of Sintered Alumina by Molecular Dynamics Simulation Yosuke Kataoka*, Kiyoshi Goto, Hironori Ogata, Yusuke Moriyoshi
C000039	Testing of Refractories	Evaluation Method of Thermal Shock Resistance of Refractories under Mechanical Constraint Yuya Tomita*, Ryota Hosogi, Hidetoshi Kamio, Kiyoshi Goto, Katsumi Morikawa
C000040	Raw Materials	A New Approach to Improve the Sintering of Cr₂O₃ with a Controllable Grain Size Hang Ye, Suzhe Yao, Enhui Wang, Enxia Xu, Xinmei Hou*, Kuochih Chou
C000041	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Global and Indian Perspectives of Alumina-Spinel Lining Concepts in a Steel Ladle Andreas Buhr*
C000042	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Development of New Optimized Material for Lower Vessel of RH Degasser Hisashi Tomiya*, Koichi Igabo, Kentaro Hirayama
C000043	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Improvement in Steel Ladle Life at LD# Shop 1...Hitting a Century Navneet Sinha*, Sudhansu Pathak, Brijender Singh, Rajeev Ranjan, Amit Banerjee
C000044	Refractory Engineering Systems and Design	Approaches Towards a Digital Tool for Optimising Lining Design – Case Studies of Channel Induction Furnace and Steel Ladle Shengli Jin, Aidong Hou, Harald Harmuth, Dietmar Gruber*
C000046	Collaboration among Customers, Manufactures and Academia	Interactions of Steel Ladle Refractories with Ladle Slags in Atmospheric and Lowered Pressures Eetu-Pekka Heikkinen*, Jukka Vatanen, Miika Sihvonen, Heikki Parkka, Henna Tahtila, Riku Mattila, and Timo Fabritius
C000047	Refractories for Waste Incineration and Others	Corrosion of Fireclay and High Alumina Refractories by Aggressive Vapours (Alkali, Sulphur, HCl, HF, ...) in Secondary Combustion Chambers for Hazardous Waste Incineration: Mechanisms and Recommendations Adrian Villalba Weinberg, Cyrille Varona, Xavier Chaucherie, Dominique Goeriot, Jacques Poirier*
C000049	Basic Science	Role of Water in Conversions of Calcium Aluminate Cement Hydrates Kun Liu, Wenjing Gu, Peixiong Zhang, Dafei Ding, Hongxia Li, Guotian Ye*
C000050	Refractories for Iron and Steel Making - BOF	Improvement of Tolerance of Converter by Improving Material of MHP Hideya Masaki*, Satoru Shimizu, Atsuhisa Iida
C000051	Refractories for Iron and Steel Making -Continuous Casting	Tundish MgO Spray Material That Be Well Attached on Internal Castable Materials Dong-Ha Lee*, Je-ha Lee, Byeong-su Kim
C000052	Basic Science	Phase Formation of Y₂O₃ Nano-size Powders through Rapid Cooling Process Takamasa Ishigaki*, Sharif Abdullah Al-Mamun
C000053	Testing of Refractories	Contributions to Refractories Creep Characterisation Dietmar Gruber*, Shengli Jin, Stefan Schachner, Martin Stuckelschweiger, Harald Harmuth
C000054	Refractories for Iron and Steel Making - Ladle and Secondary Refining	The Research on Effect of MgCl₂ Solution Impregnation Process on Properties of Alumina-Spinel Castable Qingxin Meng*, Ningsheng Zhou, Xiangyi Cheng

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C000055	New Development	Development and Application of Advanced Refractory Systems for Improved Mechanical and Corrosion Resistance James G. Hemrick*
C000056	Refractories for Iron and Steel Making -Continuous Casting	Improvement of Tundish Re-oxidation by Developing Non-lancing during Ladle Shroud Nozzle Connection Operation JungMin Lee*, Hyeok Jang, WoongGan Ki, TaeJun Ha
C000057	Basic Science	Rheological Behavior of Organic Binders for Blast Furnace Taphole Clay Shougo Miyajima*
C000058	Testing of Refractories	Thermal Shock Resistance of Monolithic Refractories with Coarse Grained Aggregates under Constraint Condition Youichi Tsuji*, Ryota Hosogi, Hidetoshi Kamio, Kiyoshi Goto, Katsumi Morikawa
C000059	Raw Materials	Synthesis of Aluminum Silicon Carbide Particles by Using Carbonized Natural Ligneous Sources Hatsuo Taira, Tomoyuki Maeda*, Tomohiro Nishikawa, Yasuhiro Hoshiyama, Shigeki Uchida
C000060	Raw Materials	Fabrication of the Highly Porous Alumina Aggregate by High-temperature Evaporation of Na₂O-B₂O₃-SiO₂ Glass Flux and Its Application to Castable Materials Daimu Muto*, Shinobu Hashimoto, Sawao Honda, Yusuke Daiko
C000061	Energy Saving and Insulation	Calcium Hexaluminate Lightweight Refractory Bricks: Manufacturing, Properties, Application Ph.D. Valery V. Martynenko*, Dr. Sc. Vladimir V. Primachenko, Ph.D. Nataliya M. Kaznachejeva
C000062	Refractories for Petrochemical Industry	Phase Composition, Structure, Properties of (CaO+MgO)-stabilized Zirconia on Phosphate Binder at the Temperatures up to 2200 °C for Carbon Black Reactors Lining Ph. D. Valery V. Martynenko, Ph. D. Pavel A. Kushchenko, Dr. Sc. Vladimir V. Primachenko
C000063	Testing of Refractories	Radar Based Investigation of the Decomposition of Hydrate Phases in Calcium Alumina Concrete T. Stein*, O. Krause
C000064	Energy Saving and Insulation	Development of Al₂O₃-CAC Refractory Macroporous Ceramics Derived from Ultrastable Foams and CAC Aqueous Suspensions T. Santos Junior*, O. H. Borges, V.V.S. Machado, V.R. Salvini, C. Parr, V.C. Pandolfelli
C000065	Energy Saving and Insulation	Impact of Distinct Ca²⁺ Sources on the Physical Properties of Alumina-based Macroporous Refractories for Thermal Insulation at High Temperature O. H. Borges*, T. Santos Jr., R. R. B. de Oliveira, V. R. Salvini, V. C. Pandolfelli
C000066	Refractories for Iron and Steel Making -Continuous Casting	Development of Novel Material for Continuous Casting Nozzle Ling Li*, Kiyoshi Goto, Katsumi Morikawa
C000067	Refractories for Iron and Steel Making - BOF	Investigation of MHP Wear Pattern and Advanced MHP Refractory for BOF Gaku Shimada*, Masayoshi Kakihara, Ryoma Fujiyoshi, Hiroki Yoshioka, and Atsuhisa Iida
C000068	Refractory Engineering Systems and Design	Thermomechanical Modelling of Refractory Mortarless Masonry Wall Subjected to Biaxial Compression Mahmoud Ali*, Thomas Sayet, Alain Gasser, Eric Blond
C000069	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Melting Phase Formation in MgO-CMA-C and Their Impact on Protective Slag Layer Formation for Steel Ladle Application Patrick Gehre*, Theresia Preisker, Stefan Guhl, Nora Brachhold, Gert Schmidt, Christos G. Aneziris, Christoph Wohrmeyer, Christopher Parr
C000071	Refractories for Petrochemical Industry	Analysis of the Damage Process of High Chromium Refractories During the Whole Service Life in Coal-water Slurry Gasifier Honggang Sun*, Hongxia Li, Keming Geng, Yihao Du, Han Wang
C000072	Refractories for Non-ferrous Metal Industry	Comparison between Different Taphole Clays for Metal Tapholes of Fe-alloy Reduction Furnaces Tomas Oliveira*, Wagner Silva, Humberto Bassalo, Aloisio Ribeiro and Modestino Brito
C000073	Refractories for Iron and Steel Making -Continuous Casting	Main Corrosion Mechanisms of Stopper Rod by Al Killed Steel Silvia Camelli*, Pablo Marinelli, Jesus Gonzalez, Maria Lujan Dignani, Adrian Vazquez
C000074	Collaboration among Customers, Manufactures and Academia	Practical Numerical Simulation and Experimental Setup for Speeding up the Drying Behavior of Calcium Aluminate Cement (CAC)-bonded Refractory Castables M. H. Moreira*, A. P. Luiz, T. M. Cunha, H. Lemaistre, J. M. Auvray, C. Parr, R. Ausas, V. C. Pandolfelli
C000075	Collaboration among Customers, Manufactures and Academia	Refractory Lifetime Prognosis for RH Degassers Andreas Viertauer, Nikolaus Mutsam, Franz Pernkopf, Andreas Gantner, Georg Grimm, Waltraud Winkler, Gregor Lammer, Alexander Ratz, Magnus Persson
C000076	Basic Science	Mechanical Properties of In-situ Calcium Hexaluminate Castables with Difference Microstructure Jiraprabha Khajornboon*, Kouichiro Washijima, Takeshi Shiono

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C000077	Refractory Engineering Systems and Design	Modeling of Nonlinear Behavior at High Temperature of Refractory Masonries Without Mortar Nassima Yahmi*, Alain Gasser, Eric Blond
C000078	Refractories for Non-ferrous Metal Industry	Application of Zircon Castable for Aluminum Melting Furnace Masato Kawasaki*
C000079	Raw Materials	Effect of Preheating Temperature of Andalusite Aggregate on the Properties of Mullite-based Refractory Qingfeng Wang*, Xianhui Li, Guihua Liao, Gan Shi, Huimin Liu, Xiaoyu Wang, Guotian Ye
C000080	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Influence of Submicron-Size α-Al₂O₃ Powders on Slag Resistance of Corundum-Spinel Bricks in Ladle Metal Zone Tianqing Li, Qixiu Zuo, Jie Gao, Houxing Zhang, Baikuan Liu
C000083	Refractories for Iron and Steel Making - Coke Ovens and Blast Furnace	Development of Taphole Clay with New Generation Resin Binder Yuji Otsubo*, Yoshinobu Ushijima, Koji Yonemoto, Yutaka Kitazawa
C000084	Refractories for Non-ferrous Metal Industry	Ceramic Joining Material for Repairing Carbon Block Jae-won Kim*, Byeong-su Kim
C000085	Refractories for Petrochemical Industry	Corrosion Behavior of Chrome Oxide Free Refractories by Coal Slags under Gasification Conditions Shixian Zhao*, Hongxia Li, Binli Cai, Honggang Sun, Lan Wang, Gang Wang
C000086	Refractories for Iron and Steel Making -Continuous Casting	Proposal of Robot Application for the Ladle Slide Gate Brick Replacement Mamoru Yoshimura*, Yusuke Yamaguchi, Toshihiro Imahase, Junichi Funato, Haruyuki Ohba
C000087	Basic Science	Strength Evolution of CAC-bonded Castables with and Without Silica Fume Below 1000 °C Peixiong Zhang, Na Li, Kun Liu, Song Gao, Dafei Ding, Guotian Ye*, Qingfeng Wang
C000088	Advances in Manufacturing, Installation and Equipment	High Temperature Gas Permeability Tester for Refractories and Its Application Hu Piao*, Song Yanyan, Dong Dianmin, Li Xiaorui
C000091	Testing of Refractories	Three-Dimensional Analysis of Porous Plug Structure Using X-ray CT Keisuke Yamada*, Takafumi Oishi, Shigefumi Matsumoto, Tatsuya Ouchi, Kouji Gouda, Katsumi Morikawa
C000092	Refractories for Iron and Steel Making - Coke Ovens and Blast Furnace	Application of Silica-Sol for Trough Castables Containing Spinel Ryusuke Funakoshi*, Yasuhiro Oba
C000094	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Study on Corrosion Mechanism of Spinel-containing Alumina Castables with Different Types of Slag Dominika Madej*, Klaudia Wisniewska, Jakub Ramult, Karina Tyrala, Ryszard Prorok
C000096	Refractory Engineering Systems and Design	Design, Fabrication and Slag Behaviors of Lightweight Raw Materials Lvping Fu*, Huazhi Gu, Ao Huang, Yongshun Zou, Meijie Zhang, Hongwei Ni
C000097	Refractories for Iron and Steel Making - Hot Metal Transport	Improvement of the Lance Refractories for Desiliconization of Molten Iron in Torpedo Cars Masato Shiokawa*, Kunihiko Watanabe
C000098	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Development of Burnt Alumina-Magnesia-Spinel Brick for Steel Ladle Lining S.K.Hazra*, Avishek Mitra, Birendra Prasad, Ingo Gruber, Shankha Chatterjee
C000099	Testing of Refractories	Setting Shrinkage Measurement During Cement Hydration Stefan Kuiper*, Geert Wams, Alexandra Spies, Jerry Dutton
C000100	Testing of Refractories	Effect of Creep on Refractory Masonry Wall Subjected to Cyclic Temperature Loading Pratik N. Gajjar, Joao M. Pereira, Paulo B. Lourenco
C000101	Testing of Refractories	Characterization of Carbon-bonded Alumina by Mercury Intrusion and Extrusion Porosimetry for Steel Applications Claudia Voigt*, Jana Hubalkova, Herbert Giesche, Christos G. Aneziris
C000102	Testing of Refractories	Determination of Damage Limits in Refractories of Different Brittleness and Damping Capacity Based on Acoustic Emission Algorithms Naveen Shetty*, Maure De Smedt, Els Verstrynge, Kirill Andreev
C000103	Energy Saving and Insulation	Novel Innovative High Temperature Insulating Material Damping Capacity Based on Acoustic Emission Algorithms Based on Renewable Raw Material Dr. Volker Stein*, Dr. Thomas Schemmel, Dr. Petra Stein
C000105	Energy Saving and Insulation	High Temperature Ceramic Coatings for Energy Saving Applications Eric Y. Sako*, Heloisa D. Orsolini, M. Moreira, V. C. Pandolfelli

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C000108	High Temperature Engineering Ceramics	Low Temperature Synthesis of α-Si₃N₄ Powders via High-energy Ball Milling Combined with Salt-assisted Nitridation Li Hongxia*, Liu Guoqi, Zhang Jing, Gu Qiang
C000109	Collaboration among Customers, Manufactures and Academia	Comparison of Cement- and Hydratable Alumina-bonded Alumina-Spinel Materials for Steel Ladle Purging Plugs Bin Long*
C000110	Industrial Refractories Applications	Countermeasure for Reduction of Boron in Cast Iron for Refractories of Channel Induction Furnaces Yoshihiro Teraura*, Hiroyuki Suzuki, Atsuhito Naka, Toshikazu Nagai, Dr. Yuechu Ma
C000111	Refractory Engineering Systems and Design	Anti-crack and Corrosion Resistance Lining for BF Main Trough Skimmer Chien-Nan Pan*, Kun-Ming Chen
C000112	Refractories for Waste Incineration and Others	Research on Steam Oxidation Resistance of Si₃N₄-bonded SiC Huiyan Cao*, Zhigang Huang, Xinhua Zhang, Zhen Liu
C000113	Refractories for Iron and Steel Making - Coke Ovens and Blast Furnace	The Roles of Matrix Aluminas on the Properties of Blast Furnace Trough Castables A. K. Samanta*, R. Swain, A. Tripathi, T. Matsunaga, K. Tsuyuguchi, P. B. Panda, Shankha Chatterjee
C000114	Refractories for Iron and Steel Making -Continuous Casting	Addition of Zirconium Silicide to Zirconia-Carbon Refractories for Powder Line Part of Submerged Entry Nozzle Kouhei Takami*, Kiyoshi Goto, Katsumi Morikawa
C000116	Raw Materials	Low Temperature Decarbonation of LimesTone under Vacuum Yuki Mihashi*, Akihiko Shibuya, Tetsuo Umegaki, Yoshiyuki Kojima
C000117	Refractories for Glass and Cement Production	Different Types of Bauxite Effect on Calcium Aluminate Cement Phase Formation, Characterization and Investigation of Refractory Properties Metehan Severoğlu, Tuğhan DelibaşYuki Mihashi*, Akihiko Shibuya, Tetsuo Umegaki, Yoshiyuki Kojima
C000118	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Development of Injection Lance in BOF Slag Modification Technique Jyun Yi Wu*, Li-Te William Chao
C000119	Raw Materials	Research and Application of Microcrystalline Magnesite in China's Tibet Runtang Feng*, Baikuan Liu, Xiaoli Tian, Zhenxin Gao, Tianqing Li, Zhixun Li
C000120	Refractories for Iron and Steel Making - Coke Ovens and Blast Furnace	Behavior of Fe-Si₃N₄ in Taphole Mix Texture after Long-time Heating Yuga Yamamoto*, Daisuke Tanaka, Tatsuya Kageyama
C000121	Refractories for Iron and Steel Making - Coke Ovens and Blast Furnace	Influence of Carbon Raw Materials on Characteristics of Blast Furnace Trough Slag Line Castable after Thermal Cycle Tsuneyuki Iikuni*, Daisuke Tanaka, Masatsugu Kitamura
C000122	Energy Saving and Insulation	High Emissivity Coatings for Basic Refractory Bricks Jindaporn Juthapakdeeprasert*, Wirat Lerdprom, Domingos De Sousa Meneses, Doni D. Jayaseelan, William E Lee
C000123	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Evaluation of Reduction Resistant Magnesite Chrome Bricks Kenji Tamaki*, Kiyoshi Goto, Katsumi Morikawa
C000124	Refractories for Glass and Cement Production	Hybrid Spinel Technology - Basic Refractories for Cement Rotary Kiln Linings with Optimised Flexibility M. Geith*, S. Jörg, R. Krischanitz
C000125	Refractories for Waste Incineration and Others	Corrosion Resistance of Lime Rotary Kiln Bricks for Pulp and Paper Industry Sankar Kannabiran*, Minghua Zhang
C000126	Refractories for Iron and Steel Making - Coke Ovens and Blast Furnace	High Performance Tap Hole Clay - A Key for Blast-Furnace Hearth Protection and a Tool for Cost Reduction E. Y. Sako*, D. C. F. Hespanhol, A. M. Souza, N. Janeiro, D. F. Galesi, D. Tanaka, T. Kageyama
C000128	Refractories for Waste Incineration and Others	The New Low Cement Castable for Dry Gunning Satoshi Umeda*, Ippei Katouda, Hiroshi Yamada, Yoshimasa Miyagishi
C000129	Refractories for Non-ferrous Metal Industry	Titanium Casting Using Functionalized Calcium Zirconate Molds and Crucibles for Improved Corrosion Resistance and Surface Quality Lisa Freitag*, Christos G. Aneziris, Florian Bulling, Ulrich E. Klotz, Stefan Schafföner
C000131	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Matrix Engineered ULC High Alumina-Spinel Castable Developments for Steelmaking Applications Vladnilson Peter S. Ramos*, Eric Y. Sako, Silvio C. Frasson, Douglas F. Galesi, Haysler A. A. Lima
C000133	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Bonding Mechanisms of Basic Refractories for RH Snorkels Zongqi Guo*, Ying Ma

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C000134	Basic Science	Influence of Magnesium Aluminate Spinel on the Thermomechanical Properties of Alumina-Spinel Castables Karina Tyrala, Jakub Ramult, Ryszard Prorok, Dominika Madej*
C000137	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Development of Improved Castable in Al₂O₃-MgAl₂O₄-Cr₂O₃ System for Different Application Manidip Jana*, Arup Kumar Samanta, Yasuaki Shin, Takashi Matsunaga, Priyabrata Panda
C000138	Environmental Sustainability and Recycling	Recycled Raw Materials in Refractory Castables - Part 1 of 3: Water Soluble Ions from Recycled Refractory Raw Materials in Alkaline Solution Johannes Kasper*, Christian Dannert, Alexandra Koch, Olaf Krause
C000139	Environmental Sustainability and Recycling	Recycled Raw Materials in Refractory Castables - Part 2/3: Influence of Water Soluble Ions From Recycled Refractory Raw Materials on the Dispersion and Coagulation of the Matrix Suspension of CAC-Bonded Refractory Castables Johannes Kasper*, Christian Dannert, Alexandra Koch, Olaf Krause
C000140	Refractories for Iron and Steel Making - BOF	Technical Follow-up of BOF MgO-C Supplies: Quality Controls of Refractories and Analysis of Process Parameters Tiphaine Cordonnier*, Valerie Blaise, Guillaume Brosse
C000141	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Thermal Properties Characterization of Refractory Materials Used in the Insulation Layer of Steel Ladles Diana Vitiello*, David Smith, Benoit Nait-Ali, Nicolas Tessier-Doyen, Thorsten Tonnessen, Luis Laim, Lionel Rebouillat
C000142	Collaboration among Customers, Manufactures and Academia	Discrete Element Modeling - A Promising Method for Refractory Application M. G. G. Campos*, M. F. Santos, M. H. Moreira, R. A. Angelico, P. van Beurden, P. Put, P. Tamis, V. C. Pandolfelli, S. Sinnema
C000143	New Development	Splintered Versus Cubic Grains in High Alumina Castables - Part II: Influence of Aggregate Shapes on Thermomechanical and Microstructural Changes During the Initial Heat-up Sandra Abdelouhab, Pascal Pilate*, Erwan Brochen, Christian Dannert
C000144	Industrial Refractories Applications	Phase Transition and Microstructural Evaluation of Aluminosilicate Refractories Used in Anode Baking Furnaces - A Case Study J. P. Nayak*, B. Ghosh, A. K. Samanta, K.C. Khan, K. Tsuyuguchi, P. B. Panda, A. Patra
C000145	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Improvement in Refractory Life of Smelting Reduction Furnace Kengo Matsuda*, Koichi Takahashi, Daisuke Kondo, Sohei Takagaki, Keisuke Adachi, Masanori Nishikori
C000147	Refractories for Iron and Steel Making -Continuous Casting	Development of High Al Content Al₂O₃-C SV Plate Naohide Hamamoto*, Takayuki Matsunaga, Koji Moriwaki
C000148	Basic Science	Experimental Study and Thermodynamic Modeling of Li₂O-Al₂O₃-ZrO₂ System Xintong Du, Sun Yong Kwon, In-Ho Jung*
C000149	Refractories for Iron and Steel Making - BOF	Reduction of Refractory Repair Materials Used in the BOF Converter Shigeto Sawai*, Koji Yamada, Yasuhiro Yamada
C000150	Basic Science	Microstructure and Grain Growth of Mullite by Reaction Sintering of α-Alumina with Rhyolite Toru Fukuoka*, Yoshiyuki Harada, Aya Okubo, Yusuke Moriyoshi, Kenji Tamura, Yujiro Watanabe
C000151	Refractories for Iron and Steel Making - Coke Ovens and Blast Furnace	Effort to Prevent Cracks by Changing the Runner Structure at the Tip of Iron Runner Tatsuya Nakagawa*, Toshio Komatsu
C000152	Testing of Refractories	Corrosion of Polycrystalline Wool by Alkaline Vapor Takuya Naeshirozako*, Mikiya Fujii, Masaru Sugiyama, Nobuyuki Takeuchi
C000153	Basic Science	Interactions between Magnesium Silicates and Li-ion Battery Cathode Materials During Calcination Dafei Ding, Liugang Chen*, Guotian Ye
C000154	Refractories for Iron and Steel Making - Coke Ovens and Blast Furnace	Enhancing Thermal Conductivity of Anthracite-based Carbon Blocks for Blast Furnace Yawei Li*, Tongsheng Wang, Shaobai Sang
C000155	Refractories for Iron and Steel Making -Continuous Casting	Development of High-Density and High-strength Zirconia Refractories Tsukasa Miyake*, Hirokatsu Hattanda, Tomohiro Yotabun, Tomomi Soeda
C000156	Refractories for Iron and Steel Making -Continuous Casting	Improvement of Steelmaking Productivity by Changing Tundish Refractories Shunsuke Matsui*, Yasushi Tsutsui, Shinichiroh Tagawa, Keisuke Shibasaki
C000158	High Temperature Engineering Ceramics	Spark Plasma Sintering of Aluminum Nitride Ceramics Toshiyuki Nishimura*

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C000159	Basic Science	Effect of K₂O Addition on Formation of Tridymite Phase from Quartz Tomoko Kitani*, Takayuki Sano, Takeshi Shiono
C000160	Collaboration among Customers, Manufactures and Academia	Corrosion Behavior of a Pressure Slip Casted Spider Brick During Ingot Casting Nora Gerlac, Patrick Gehre*, Christos G. Aneziris, Leandro Schottler
C000161	New Development	High Temperature Low Bio-persistence Fiber with FeO Resistance Tsuyoshi Maeda*, Kenji Komatsu
C000162	Refractories for Iron and Steel Making - Coke Ovens and Blast Furnace	Use of High Durability Carbon Blocks for Blast Furnace Bottom Lining Shohsei Miyamoto*, Keisuke Hatakeyama, Michio Nitta
C000164	Refractories for Iron and Steel Making - Ladle and Secondary Refining	New High-Grade Refractory Castable Applied to RH Degasser Snorkels Daniela Fonseca*, Arthur Mangualde, Mauro Verona, Modestino Brito
C000167	Refractories for Iron and Steel Making -Continuous Casting	Evaluations of Mold Powder Crystallization from Solid and Molten Slag Shoji Takahashi*, Masanori Okada, Junya Itoh
C000168	Testing of Refractories	Alumina-Spinel Castables under Thermal Cycling Conditions - In Situ Characterisation Ilona Kieliba*, Thorsten Tonnesen, Rainer Telle, Marc Huger, Erwan Gueguen, Chris Parr
C000169	Testing of Refractories	Correlation between the Amount of Amorphous Phase and the High-temperature Properties of Alumina Refractory Castables Considering the Grain Shape S. Etzold*, K. Wickel, T. Tonnesen, R. Telle
C000170	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Improvement of MgO-Al₂O₃-C Brick for Ladle Bottom and Metal Zone Keisuke Morita*, Tomoyuki Terasaka, Seiichi Takada, Masayuki Egami, Manabu Kimura
C000171	Testing of Refractories	Influence of Carbon Content of Molten Steel on the Corrosion of ZrO₂-C Refractories Shigefumi Matsumoto*, Tamotsu Wakita, Koji Goda, Kiyoshi Goto, Katsumi Morikawa
C000172	Advances in Manufacturing, Installation and Equipment	Preparation of Masses for Isostatic Pressed Products for Steel Casting by Using the Original Eirich Preparation Technology Ralf Loebe*, Stefan Vucic
C000173	Refractories for Iron and Steel Making -Continuous Casting	Cold Setting Mixes with Higher Preheating Stability David Wappel*, Bernd Petritz, Martin Kumar, Micheal Freiler
C000176	Raw Materials	New Alternatives in the Manufacturing of Sintered 70%-Alumina Cement Andre Luis Pereira, Milli Aline Sant'Anna, Leonardo Curimbaba Ferreira*, Peter Miura Nakachima
C000177	Refractories for Iron and Steel Making - Coke Ovens and Blast Furnace	Investigation of Main Trough ML Castable Wear Rate under Different Temperature Conditions Yoshihisa Morimoto*, Kosuke Yasuo
C000178	Energy Saving and Insulation	Improvement of High Temperature Properties of Ceramic Fiber Board Using Silica-sol Slurry with Ceramic Powders Naoya Takahashi*, Shinobu Hashimoto, Yusuke Daiko, Sawao Honda, Yuji Iwamoto
C000180	Refractory Engineering Systems and Design	Matrix Design in High-alumina Refractory Castables - Part I: Enhanced Sintering at Low Temperatures in Service, Long-term Investigations and Microstructure Evolution Florian Holleyn*, Olaf Krause, Erwan Brochen, Christian Dannert
C000181	Environmental Sustainability and Recycling	Recycled Raw Materials in Refractory Castables - Part 3/3: Influence of Water-soluble Ions from Recycled Refractory Raw Materials on the Coagulation and Hydration Velocity of CAC-bonded Refractory Castables Alexandra Koch*, Olaf Krause, Johannes Kasper, Christian Dannert
C000182	Refractories for Non-ferrous Metal Industry	Influence of Constituents of Modern Aluminium Alloys on Alumina Refractory Lining Wanja Reichert*, Vadim Sannikow, Thorsten Tonnesen, Rainer Telle
C000183	Testing of Refractories	New Insights into the Nature of Bond in Refractory Materials Using Soft X-ray Emission Spectroscopy for SEM Applications J. Kehren*, O. Krause
C000184	Testing of Refractories	Hyperspectral Raman Imaging: A Powerful Tool for Time-, Space-, and Temperature-resolved in Situ Studies Using the Example of the CaO-SiO₂-System J. Kehren*, K. Hauke, S. Zimmer, T. Geisler
C000185	Collaboration among Customers, Manufactures and Academia	Koblenz University of Applied Science, Department of Materials Engineering, Glass and Ceramics Launched a Praxis-integrated Bachelor-degree Programme O. Krause*, B. Schwarz

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C000186	Refractories for Iron and Steel Making - BOF	Improved Mechanical Properties and Thermal Shock Resistance of Low Carbon MgO-C Refractories via the Catalytic Formation of Nanocarbons and Ceramic Bonding Phases Tianbin Zhu*, Yawei Li, Shaobai Sang
C000187	Industrial Refractories Applications	Improvement in Refractory Lining Life of Rotary Kiln for Iron Ore Pelletizing Elias Tiburcio*, Mohammed Khan, Alexandre Loyola, Marcus Fernandis
C000188	Basic Science	Thermal Changes of Mullite Based Castable Heated in Hydrogen Atmosphere Shuya Shiomi*, Nobuyuki Takeuchi, Yasuhiro Ohba
C000189	Testing of Refractories	Time-dependent Changes of the Mineral Population in Calcium Aluminate Cements (CAC) after the Addition of Water Studied in Situ with Hyperspectral Raman Imaging Sinje Zimmer*, O. Krause
C000190	Refractories for Iron and Steel Making - Coke Ovens and Blast Furnace	Newly Developed Low Cement and Cement-free Castables Based on Silica Lucie Kersnerova*, Karel Lang, Stanislav Dvorak
C000191	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Improvement of the Refractory Lining Life of Steel Ladle Yutaro Iio*, Hiroki Tsukigase, Satoru Ito, Mitsuo Satoh
C000192	Refractories for Iron and Steel Making - BOF	MgO-C Bricks for BOF's: Challenges from the Past and Perspectives for the Future Carlos Pagliosa*, Tom Vert
C000193	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Novel Tempered MgO-Cr₂O₃ Bricks with Zero C Binder for RH Degasser Carlos Pagliosa*, Adão Campos, Barbara Borges, Vanderlucio Madalena, Victor Carlos Pandolfelli
C000196	Refractories for Iron and Steel Making -Continuous Casting	Key Phase Diagram Experiments in the Li₂O-ZrO₂ System and Thermodynamic Modeling of the Li₂O-SiO₂-ZrO₂ System Sun Yong Kwon, Wan-Yi Kim, In-Ho Jung*
C000197	Testing of Refractories	Influence of Additives on the Crystallization and Dehydration of Calcium-Aluminate-Hydrate Phases in Refractory Castables - Part II: Dehydration Observed by Monotonic Heating R. Simmat, C. Dannert, O. Krause, L. Erbar, C. Ulbrich, T. Stein
C000198	Testing of Refractories	Influence of Additives on the Crystallization and Dehydration of Calcium-Aluminate-Hydrate Phases . Part I: The Change of Hydrate Phase Formation as a Function of Surface-active Substances in Refractory Castables Investigated by Field Emission Scanning Electron Microscopy O. Krause, L. Erbar, C. Ulbrich, T. Stein, S. Simmat, C. Dannert
C000199	Raw Materials	Corrosion Modeling of the Magnesia Aggregates in Contact with Molten Slags Wenxuan Zhang, Ao Huang*, Yongshun Zou, Huazhi Gu, Lyping Fu
C000200	Refractory Engineering Systems and Design	Thermomechanical Design Considerations for Blast Furnace Hearth Refractory System Chad Van der Woude, Hamid Ghorbani*
C000201	Testing of Refractories	The Capillary forces: Pretty often Forgotten, Always Involved in Castables Dewatering as well as in Corrosion by Slag Emmanuel de Bilbao*, Severine Brassamin, Jacques Poirier, Anh Khoa Nguyen, Eric Blond, Thomas Sayet, Athanasios Batakis
C000202	Energy Saving and Insulation	Effect of a Ceramic Coating on the Heat Loss Through the Refractory Walls and on the Hot Refractory Surface Stability of a Ceramic Roller Kiln R. Simmat, C. Dannert, S. Otto, V. Finke, A. Mezquita, S. Ferrer, I. Celades, L. Guaita
C000203	Refractories for Glass and Cement Production	Basic Refractories Enabling Ecological Cement and Lime Production under Difficult Conditions Hans-Jurgen Klischat, Holger Wirsing*
C000204	Refractories for Iron and Steel Making - BOF	Development of Innovative Basic Gunning Mixes and Methods to Determine Their Practical Performance Ronald Lanzenberger*, David Wappel, RHI Magnesita GmbH, Technology Center Leoben, Austria
C000205	Refractories for Non-ferrous Metal Industry	Optimizing Thermomechanical Properties of Investment Casting Shell Molds Aliz Pinto Mora *, Moustapha Coulibaly, Wen Zhang, Nicolas Tessier-Doyen, Elsa Thune, Marc Huger
C000206	New Development	Splintered Versus Cubic Grains in High Alumina Castables - Part III: Assessment of the Failure Tendency in the Wear Lining of a Modelled Steel Ladle Using the Drucker-Prager Failure Criterion Erwan Brochen*, Maren Sollbach, Christian Dannert, Olaf Krause, Laura Erbar, Sandra Abdelouhab, Pascal Pilate
C000207	Refractories for Waste Incineration and Others	Alkali and Slag Resistance of Calcium Hexa-aluminate Raw Material Mouna Sassi*, Emmanuel de Bilbao, Jacques Poirier
C000208	Refractory Engineering Systems and Design	Matrix Design in High Alumina Refractory Castables - Part II: Assessment of the Brittle-ductile Transition Temperature and Ways to Influence It Erwan Brochen*, Christian Dannert, Olaf Krause, Florian Holleyn

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C000209	Refractories for Glass and Cement Production	Cement-free Refractory Concretes with Balanced Thermomechanical Properties in Highly Loaded Areas of the Cement Clinker Burning Process Hans-Jurgen Klischat, Kai Beimdiek*
C000210	Refractories for Waste Incineration and Others	Chromium Free Special-impregnated Bricks for Special Waste Incineration Christina Stimpfl*, RHIMagnesita
C000211	New Development	Assessment of a New Magnesia-based Binder Concept for Refractory Castables Christoph Wohrmeyer *, Frederic Lacoue, Lauri Thomas, Magali Szepizdyn, Chris Parr
C000212	Refractories for Iron and Steel Making -Continuous Casting	Exchangeable Carbon-bonded Alumina Foam Filters for Continuous Casting of Steel Tony Wetzig*, Bruno Luchini, Steffen Dudczig, Jana Hubalkova, Christos G. Aneziris
C000213	Testing of Refractories	Creep Characterization of Refractory Materials at High Temperatures Using the Integrated Digital Image Correlation Lucas Teixeira*, Jean Gillibert, Eric Blond, Thomas Sayet
C000214	Raw Materials	Mullitisation and Dryout Behaviour of Sol-gel Based Bauxite and Andalusite NCCs with Sillimanite/Kyanite T. Leber*, T. Tonnesen, R. Telle
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C000217	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Thermomechanical Behaviour of an Alumina Spinel Refractory for Steel Ladle Applications Robert Kaczmarek*, Jean-Christophe Dupre, Pascal Doumalin, Ion Octavian Pop, Lucas Breder-Teixeira, Jean Gillibert, Eric Blond, Marc Huger
C000218	Refractories for Waste Incineration and Others	Utilization of Al₂O₃-CaO-Cr₂O₃ Refractory Castables System Without Cr(VI) Generation Mithun Nath, Tengeng Xu, Ning Liao, Yaqi Wang, Shengqiang Song, Yawei Li*
C000219	Industrial Refractories Applications	Refractories for Fluidized Bed Alumina Calciners: Planned Selection, Testing and Implementation to Improve the Materials' Performance M. A. L. Braulio*, J. R. Cunha, A. J. Maxwell, D. Whiteman, V. C. Pandolfelli
C000220	Basic Science	Numerical Modeling of Wedge Splitting Test by Discrete Element Approach: Flat Joint Contact Model Farid Asadi*, Damien Andre, Sacha Emam, Pascal Doumalin, Marc Huger
C000221	New Development	Splintered versus Cubic Grains in High Alumina Castables - Part I: Examination of the Impact of the Particle Shape on the Explosion Resistance Laura Erbar*, Olaf Krause, Tobias Steffen, Erwan Brochen, Christian Dannert
C000222	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Development of High Creep MgO-C Brick at High Temperature Kentaro Hirayama*, Atsuhisa Iida, Masakazu Iida, Hisashi Tomiya, Kazuhiro Inoue, Koyo Murakami
C000223	Basic Science	Effect of Sodium Polyphosphate Addition on Alumina-Spinel Castable Expansion Kosuke Ota*, Kazuya Nakabo, Shigefumi Nishida
C000224	Refractories for Iron and Steel Making -Continuous Casting	Coating Material for Tundish with Improved Workability, Drying Property and Dismantability Yuto Suzuki*, Shigefumi Nishida, Kiyoyuki Komatsubara
C000225	Refractories for Iron and Steel Making - Coke Ovens and Blast Furnace	The Influence of Crystallisation on Thermal Shock Behaviour of a Fused Silica Refractory Castable Concrete Vahid Tadaion*, Kirill Andreev, Thorsten Tonnesen, Rainer Telle
C000226	Refractories for Iron and Steel Making - BOF	Improvement of MgO-C Bricks for the Charging Sidewall of the BOF in Kashima Steel Works Kensuke Kato*, Satoru Ito
C000227	New Development	Reinforcement of the Support Structure for Ceramic Fiber Blocks in a Reheat Furnace Takuya Matsumoto*, Motokuni Itakusu, Hiroshi Imagawa
C000228	Refractories for Iron and Steel	Wear Behavior of BN Composite Refractories in Steelmaking Process Oh Seong Kweon*, Young Ju Lee, Yun Ki Byeun, Dong Su Kang
C000229	Basic Science	Thermodynamic Approach on Continuous Growth of Spinel between Slag and Solid MgO and MgAl₂O₄ Cheol Min Yoon*, Dong Joon Min
C000230	Raw Materials	Performance of a New Aluminate Binder Adapted to Dry Gunning Bruno Touzo*, Simon Gao, Christoph Wohrmeyer, Chris Parr
C000232	High Temperature Engineering Ceramics	Residual Strain in the Composites of Oxygen Ionic Conductors and Oxides Ryosuke Kuwabara, Keiji Yashiro, Takashi Nakamura, Fumitada Iguchi*

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C000234	Testing of Refractories	Microstructure Observation of Refractories after Simultaneous Contact with Molten Steel and Slag Utilizing Crucible Method Kanae Nishio*, Tomoyuki Maeda, Yasuhiro Hoshiyama, Shigeyuki Takanaga, Tamiatsu Koyake, Masakazu Iida
C000235	Refractories for Iron and Steel Making -Continuous Casting	Improvement of SEN's Outletport to Prevent Alumina Adhesion Genta Matsuo*, Takayuki Matsunaga, Kanae Nishio
C000237	Refractories for Non-ferrous Metal Industry	The Interfacial Wetting/Infiltration Behavior in Si/Si₃N₄/SiO₂ Ternary System: Influence of Oxygen Content in α-Si₃N₄ Coating Qinghu Wang*, Jiangtao Li, Yawei Li
C000238	Refractories for Iron and Steel Making - Coke Ovens and Blast Furnace	Development of High-performance Eco-friendly Tap-hole Clay(THC) with Carbonized Organic Matter Tae-Wan Kim*, Jae-Hoon Lee, Jin-Seog Go, Won-Gab Kim
C000239	Refractories for Glass and Cement Production	Effect of Minor Components on the Properties of Magnesia-Spinel Brick for Cement Rotary Kilns Hitoshi Toda, Mikako Fujii, Makoto Ohno,
C000240	Basic Science	Aging Behaviour of Deflocculated Low Cement and Self-Flow Castables - Influence of Materials, Additives and Atmospheric Conditions C. J. Dileep Kumar*, Gaurav Sinha, Shushavon Sarkar, Suparna Basu, Saumen Sinha, Santanu Basak
C000241	Refractories for Glass and Cement Production	Influence of Glassy Phase Composition on Glass Exudation of AZS Fused Cast Refractories Kuniyuki Yanagawa*, Toshiro Tanimoto, Kenji Matano
C000242	Refractories for Waste Incineration and Others	Influence of the Basicity of Waste Molten Slag on Alumina-Chromia Brick for Waste Melting Furnaces Hitoshi Chiba, Hitoshi Toda, Makoto Ohno, Fumihito Ozeki
C000243	Refractories for Iron and Steel Making - Coke Ovens and Blast Furnace	A Thermodynamic Understanding of Alkali Oxide Accretion on the Castable Refractories in Ironmaking Dong-Geun Kim, In-Ho Jung*
C000244	High Temperature Engineering Ceramics	Improvement in Corrosion Resistance of Silicon Nitride / Boron Nitride Composite Ceramics and Application to Atomizing Spray Nozzle Nobuhiro Otsuka, Atsushi Makiya
C000245	Refractories for Iron and Steel Making - Hot Metal Transport	Improvement of Steel Productivity in Consolidating Upstream Processes Into Kakogawa Works Koichiro Takeno*, Kazumasa Adachi, Hitoshi Sawada, Norio Sakaguchi, Atsuhiko Yoshida
C000248	Energy Saving and Insulation	Reduction of Heat Loss in Steelmaking Process Yoshiyuki Nakamura*, Seiji Hosohara, Akihiko Inoue, Kai Taniguchi, Katsunori Takahashi
C000249	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Comparison of Operational Properties of Various Types of Purging Plugs for Steel Ladles Zbigniew Czapka*, Zak.ady Magnezytowe
C000250	Refractories for Iron and Steel Making -Continuous Casting	Effect of Si Addition on Heat Transfer Characteristics of Mould Flux for Continuous Steel Casting Process Rie Endo*, Yo Kan, Takashi Watanabe, Miyuki Hayashi, Masahiro Susa
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C000253	Energy Saving and Insulation	Development of Insulating Firebrick Through a Gelation Freezing Method Mikako Fujii*, Ayumi Matsuoka, Yosuke Tanaka, Fumihito Ozeki, Manabu Fukushima, Yuichi Yoshizawa
C000254	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Comparing the Corrosion Resistance of Permanent Lining Refractories for Steel Ladles Shiori Kimura*, Yushi Tsutsui, Yuichi Kato, Takayuki Inuzuka
C000256	Refractories for Waste Incineration and Others	Development of Explosion Resistant Refractory Castables for Rotary Kilns Chinami Hirate*, Shun Kawaguchi, Hitoshi Chiba, Ohno Makoto
C000257	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Evaluation Method of Porous Plug Durability Simulating Actual Condition Kazunobu Ogata*, Takahiro Kago, Koji Matsumura
C000258	Basic Science	Influence of Al₂O₃ Content on Microstructure and Mechanical Properties of Al₂O₃-MgO Castables Kouichiro Washijima*, Kaname Hayashi, Jiraprabha Khajornboon, Takeshi Shiono
C000259	Energy Saving and Insulation	Microporous Insulation Materials with High Heat Resistance Takeshi Miyake*, Yasuo Shiraishi, Toshiaki Hashimoto

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C000260	Raw Materials	Relationship between Chemical Composition of Synthetic Dead Burned Magnesia Used as Raw Material of Shaped Refractories and Corrosion of Shaped Bricks by Alkali Sulfate Naoto Nishida*, Ikuya Umemoto, Takashi Arase, Akira Yoshida, Yuuzou Katou
C000261	Energy Saving and Insulation	Characterization of Wool and Product Made by Alkaline Earth Silicate Yusuke Kishigawa*, Yasuo Shiraiishi, Toshiaki Hashimoto
C000262	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Impact of Composition Changes of Alumina-rich Slags on the Corrosion of Refractories Found in Steel Ladles Camille Reynaert*, Edyta Sniezek, Thorsten Tonnesen, Jacek Szczerba
C000263	Collaboration among Customers, Manufactures and Academia	New Anti-oxidation Technology for Trough and Runners Castables, Part II: Hot Adhesion Material and the Successful Results at CSN Blast-Furnace #02 E. Y. Sako*, W. Alves, F. P. Netto, N. Januario, D. F. Galesi, G. A. Alves, H. Fujiwara, T. Komatsu, L. A. Nascimento, P. R. Fusco
C000264	Refractories for Iron and Steel Making - Coke Ovens and Blast Furnace	Behaviour of Tap-hole Clays Against Slag Corrosion: A Key to assure Safe and Regular Emptying of Blast Furnaces P.Hubert*, N.Eliazord, B. Buchberger
C000265	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Thermal Shock Resistance of Fired Corundum-Spinel Brick and Spinel-Containing LCC S. Darban*, R. Prorok, D. Madej, J. Szczerba
C000266	Refractories for Iron and Steel Making - Ladle and Secondary Refining	C-free Refractory for Reducing the Steel Ladle Energy Consumption: Numerical Analysis and In-situ Measurements M. F. Santos*, M. H. Moreira, M. G. G. Campos, R. A. Angelico, E. Y. Sako, V. P. S. Ramos, D. F. Galesi, V. C. Pandolfelli
C000267	Refractories for Iron and Steel Making - Hot Metal Transport	Improvements of Hot Metal Ladle Refractory Material and Design in Order to Reduce Specific Consumption, Increase Ladle Availability and Reduce Operational Cost Daniele Fonseca de Lima*, Sandro Souza Santos, Odair Jose Kirmse, Camila B Albani, Katia C F
C000268	Refractories for Glass and Cement Production	Formation of Bubbles at the Interface between Borosilicate Glass and Dense Zircon Refractory Hiroki Akahane*, Takeshi Shiono
C000269	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Forecasting of the Wear of Selected Refractory Material of the MgO-C Type in the Slag Zone of a Steel Ladle Using Dimensional Analysis Wiesław Zelik*, Zak.ady Magnezytowe
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C000271	Refractories for Petrochemical Industry	Alumina Refractory Vaporization in Secondary Reformer & Auto-thermal Reformer in Syngas Plants Manabendra Maity*
C000272	Refractories for Iron and Steel Making - Hot Metal Transport	On the Thermal Management of Torpedo Ladle Car Logistics at Tata Steel in Ijmuiden Paul van Beurden*, Joeri Liefhebber, Peter Sentveld, Frank Kerkhoven
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C000274	Testing of Refractories	Progress of Young's Modulus of High Alumina Castables During Corrosion Process T. Tonnesen*, W. Reichert, R. Telle, P. Leto, R. Haubner
C000277	High Temperature Engineering Ceramics	3-dimensional Observation of Coarse Pore Evolution During Sintering in Alumina Ceramics Satoshi Tanaka*, Tsuyoshi Hondo
C000278	Refractories for Iron and Steel Making - Ladle and Secondary Refining	An Industrial Study of the Change in Behaviour of Microporous Insulation in Teeming Ladles Liam Cotton*, Dr. Shahin Mehraban, Dr. Ria Mitchell, Dr. Tom Dunlop, Mark Griffiths, Dr Zakaria Abdallah, Prof. Cameron Pleydell-Pearce, John Madill, Dr Szymon Kubal
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C000289	New Development	Towards a New Generation of Dry Vibrating Materials Dedicated to Coreless Induction Furnace : A Boron Free Solution Romain Techer*, Dirk Holl, Patrick Malkmus
C000291	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Cracking Behavior on Throat Refractory of RH Degasser Yong M Lee*, Alan Sutliff, Xin Zhang
C000293	Basic Science	Aluminum Phosphate Phase Changes Caused by the Exposure Environment James Bennett, Anna Nakano, Jinichiro Nakano*, Hugh Thomas
C000294	Testing of Refractories	How to Design and Implement a Safe and Effective Industrial Trial for Refractories in Order to Get a Reliable Test Result Thomas Vert*
C000296	Refractories for Iron and Steel Making -Continuous Casting	Coating Restrain Destabilizing of ZrO₂ Particles at Glaze Keita Okada*, Shigeaki Takahashi, Noriaki Yamauchi, Masahiro Shinato, Keisuke Kachi
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C000300	Refractory Engineering Systems and Design	A New Algorithm Concept of Refractory forecasting in Main Runner at Blast Furnace Min-Gyu Song*, Sang-Ahm Lee, Jae-Il Jung
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C000302	Refractories for Iron and Steel Making - Ladle and Secondary Refining	Effects of Magnesia on the Improvement of Corrosion Resistance of Alumina-Spinel Ladle Castable Sung-Hwan Kim*, Sang-Ahm Lee, Yong-Ho Cho, Dong-Suk Lee, Woo-Jin Lee, Chang-Jun Park
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C000308	High Temperature Engineering Ceramics	Microstructure and Phase Evolution of Corundum-Spinel Based Castables Containing Nano Phases Xiangcheng Li*, Hui Zhu, Pingan Chen, Chen Bai, Boquan Zhu
C000309	Basic Science	Effect of Catalysts on Microstructure and Thermo-mechanical Properties of Al₂O₃-C Refractories Chaofan Yin*, Xiangcheng Li, Chen Bai, Wei Gong, Pingan Chen, Boquan Zhu
C000311	Refractories for Petrochemical Industry	Testing Refractories for Direct Contact Steam Generation Nicole Bond, Marc Duchesne*, Robin Hughes