

Refractory Ceramics Division Alfred W. Allen Award Winners

2026 - Xingwen Wei, Anton Yehorov, Manuel Loeffler, Yuri Korobeinikov, Olga Fabrichnaya, Seetharaman Sridhar and Olena Volkova "The interaction between Fe₂O₃-bearing molten slag and MgO-C refractory containing calcium magnesium aluminate antioxidant," J Am Ceram Soc.; 108: e70058 (2025)

2024 – Somnath Mandal, James G. Hemrick and Manoj K. Mahapatra. "Impact on aggregate/matrix bonding when a refractory contains zinc aluminate instead of spinel and magnesia-chrome." J Am Ceram Soc.; 106: 5662-5678 (2023)

2022 - Stefan Schafföner, Georg Puchas, Lukas Wagner, Wen Yan, Chen Zhe, Yajie Dai, Qiang Wang, Guangqiang Li. "Functional Porosity in Composite Ceramics for Refractory and Thermal Processing Applications."

2020 - Luchini B, Grabenhorst J, Fruhstorfer J, Pandolfelli VC, Aneziris CG. "On the nonlinear behavior of Young's modulus of carbon- bonded alumina at high temperatures". J Am Ceram Soc.;101:4171–4183 (2018)

2018 - Jacques Poirier, Eric Blond, Emmanuel de Bilbao, Rudy Michel, Antoine Coulon, Jean Gillibert, Michel Boussuge, Yang Zhang, David Ryckelynck, Gilles Dusserre, Thierry Cutard, and Paul Leplay, "New advances in the laboratory characterization of refractories: testing and modelling" Metall. Res. Technol. 114, 610 (2017)

2016 - A.G. Tomba Martinez, A.P. Luz, M.A.L. Braulio, and V.C. Pandolfelli, "Al₂O₃-based binders for corrosion resistance optimization of Al₂O₃-MgAl₂O₄ and Al₂O₃-MgO refractory castables," Ceramics International 41 (2015) 9947-99

2014 - Eric Y. Sako, Mariana A. L. Braulio, Enno Zinngrebe, Sieger R. van der Laan, and Victor C. Pandolfelli, "In-Depth Microstructural Evolution Analyses of Cement-Bonded Spinel Refractory Castables: Novel Insights Regarding Spinel and CA6 Formation," J. Amer. Ceram. Soc., 95 [5] 1732-1742 (2012)

2012 - Wagner M. Silva and Modestino A. M. Brito - Magnesita Refractories S.A., Brazil, Christos G. Aneziris - Institute for Ceramics, Glass and Construction Materials, Technical University Freiberg, Germany, "Effect of Alumina and Silica on the Hydration Behaviour of Magnesia Based Refractories," J. Amer. Ceram. Soc., 94(12) 4218-4225 (2011)

2010 - Devdutt Shukla and Jeffrey D. Smith, "Effect of Celsian on Corrosion of Aluminosilicate Castable Refractories," Refractories Applications, Vol. 4, No. 3, November/December 2009.

2008 - Chang Min Chun, Narasimha-Rao V. Bangaru, Neeraj Thirumalai, John R. Peterson, Christopher J. Fowler, and Robert L. Antram, "Erosion-Corrosion-Resistant Titanium Diboride Cermets for High-Temperature Process Applications," Int. J. Appl. Ceram. Technol., pp. 1-13, 2008.

2006 – Y.A. Marques, R.G. Pileggi, F.A.O. Valenzuela, M.A.L. Braulio, and V.C. Pandolfelli, "Setting Additives Influence on the Thermomechanical Properties of Wet Shotcrete Refractory Castable Matrices," *Ceram. Bull.*, pp. 9201-9206, 2005.

2004 – S. Ramachandran, K.D. Peaslee, and J.D. Smith, "Thermochemistry of Steel-Refractory Interactions in Continuous Casting Nozzles," *Iron and Steelmaker*, 11 (2003) pp.55-63.

2002 – Michel Rigaud, Stefan Palco, and Ningsheng Zhou, "Alumina and Magnesia-Based Castables Containing Graphite: Comparison"

2000 – A.A. Weresczak, T.P. Kirkland, and W.F. Curtis, "Creep of CaO/SiO₂-containing MgO Refractories," *J. Mater. Sci.*, 34 (1999), pp. 215-227.

1998 – Gord Cuthbert, Reg White, Brian Martin, Chris Doyle, Juan Hrepic, and Carlos Diaz, "The Effect of Slag Composition Control on the Performance of Magnesite-Chrome Refractory Linings in Top Blown Rotary Converters," pp.381-392, *Advances in Refractories for the Metallurgical Industries II*, Canadian Institute Mining, Metals, Petr., 8/96 Montreal.

1996 – K.N. Singh, C.R. Beechan, T.J. Russo, W.S. Howanski, and B. Brezny, "Reducing Thermally Induced Stresses in BOF Linings," pp. 491-498, 1995 *Steelmaking Conference Proceedings*.

1994 – J. Tu, R.B. Fortuna, and S.C. Su, "Microstructure, Phase Composition and Properties of an Olivine Based Castable," pp. 506-516, *UNITECR '93*.

1992 – Claude Allaire, Michel Rigaud, and Serge Dallaire, "Basic Phosphate-Bonded Castables from Dolomitic-Magnesite Clinkers," *J. Amer. Ceram. Soc.*, 72 (9) 1698-1703 (1989).

1987 – Robert O. Russell

1986 – Brian Rand and O. Serdar Ozgen, "Kinetics of Oxidation of the Graphite Phase in Alumina/Graphite Materials," *Brit Ceram Trans J*, Vol. 84, No. 2, pp. 70-76, 1985.

1985 – Wate T. Bakker, Ulrich Gerhardus, Sherman Greenberg, and Meinholf Trondt, "Refractory Practice in Slagging Gasifiers," *Ceram. Bull.*, pp. 870-6, July 1984.

1984 – Robert O. Russell and Gary D. Morrow, "Characteristics of Refractories Used in Teeming Ladles," *Iron & Steelmaker*, July 1983.

1983 – John Sweeney and Mark Cross, "Analyzing the Stress Response of Commercial Refractory Structures in Service at High Temperature: A Simple Model of Viscoelastic Stress Response" and "II. A Thermal Stress Model for Refractory Structures," *Trans. J. Brit. Ceram. Soc.*, Vol. 81, No. 1, pp. 25-28 and No. 2, pp. 47-52, 1982.