

1. Lei Gao, Donghui Li, K Chattopadhyay etc. Mathematical Modeling of Decarburization in Levitated Fe-Cr-C Droplets, *Metallurgical and Materials Transactions B*, Vol. 49B, 2018, pp. 1985 – 1994.
2. Saikat Chatterjee, Donghui Li, Kinnor Chattopadhyay. Modeling of Liquid Steel/Slag/Argon Gas Multiphase Flow During Tundish Open Eye Formation in a Two-Strand Tundish, *Metallurgical and Materials Transactions B*, Vol. 49B, 2018, PP. 756 -766.
3. Bohong Zhu, Donghui Li and Kinnor Chattopadhyay. Effect of Interphase Forces on Gas–Liquid Multiphase Flow in RH Degasser. *Metallurgical and Materials Transactions B*, Vol. 48B, 2017, pp. 2620-2630.
4. Chatterjee S, Li D and Chattopadhyay K. Tundish Open Eye Formation: A Trivial Event with Dire Consequences, *Steel Research International*, Vol.88(9), 2017, pp.
5. Chatterjee S, Li D, Leung J, Sengupta J and Chattopadhyay K: “Investigation of eccentric open eye formation in a slab caster tundish”, *Metallurgical and Materials Transactions B*, Vol. 48B, 2017, pp. 1035-1044.
6. Chatterjee S, Li D and Chattopadhyay K: “Criticality of sampling location in inert gas shrouded tundishes”, *ISIJ Int.* 2016, Volume 56, Issue 10, pp 1889-1892.
7. LEI GAO, ZHE SHI, DONGHUI LI, ALEXANDER MCLEAN and KINNOR CHATTOPADHYAY, "Dimensionless Analysis and Numerical Modeling of Rebalancing Phenomena During Levitation", submitted to *Metallurgical and Materials transactions B*, Vol.47B, 2016, pp.1905-1915.
8. Lei Gao, Zhe Shi, Donghui Li, Yindong Yang, Guifang Zhang, Alexander Mclean, And Kinnor Chattopadhyay, “Dimensionless Analysis and Mathematical Modeling of Electromagnetic Levitation (EML) of Metals”, *Metallurgical and Materials transactions B*, Vol 47B, February, 2016, pp. 67-75.
9. Lei Gao, Zhe Shi, Donghui Li, Guifang Zhang, Yindong Yang, Alexander Mclean, And Kinnor Chattopadhyay, “Applications of Electromagnetic Levitation and Development of Mathematical Models: A Review of the Last 15 Years (2000 to 2015)”, *Metallurgical and Materials Transactions B*, Vol. 47B, February, 2016, pp.537-547
10. “Improving Strip Surface Quality of AA6111 alloy using Different Casting Atmospheres for the Horizontal Single Belt Strip Casting (HSBC) Process”, *Light Metal 2012*, TMS Annual Meeting 2012, Orlando, March 11-15, 2012.
11. “Studies of Casting Ca-based amorphous strips via horizontal single belt strip casting process”, 2011 Guthrie Symposium Proceedings, Montreal, June 6-9 2011, pp.445-451
12. “The Direct Observation and Modeling of Metal Flows in the Meniscus Regions of Horizontal Single Belt Strip Casting Process”, 2011 Guthrie Symposium Proceedings, Montreal, June 6-9 2011, pp.452-459.
13. “Studies of Fluid Flow and Meniscus Behaviour during Horizontal Single Belt Casting (HSBC) of Thin Metallic Strips”, *Light Metal 2011*, TMS Annual Meeting 2011, San Diego, February 27 - March 3, 2011, pp797-802.
14. “Ab-initio Predictions of Interfacial Heat Fluxes in Horizontal Single Belt Casting (HSBC), Incorporating Surface Texture and Air Gap Evolution” *ISIJ International*, Vol. 50 (2010), No. 12, pp. 1805–1813.

15. "Ab-initio Predictions of Interfacial Heat Flows during the High Speed Casting of Liquid Metals in Near Net Shape Casting Operations" Steel Research International, Vol.81, 2010, No 10, pp. 891-898.
16. "Improving the surface of AA6111 sheet material, cast at high speeds, through the use of macroscopically textured substrates", Light Metals 2009, TMS Annual Meeting 2009, February 15-19, 2009, San Francisco, pp. 889-894.
17. "The Role of Solidification Conditions On The Microstructural Features Of AA6111 Cast Strips", International Journal of Materials Research, Vol.99, 2008, No.12, pp 1384-1392.
18. "Ab -initio Predictions of Interfacial Heat Flows during High Speed Thin Strip Casting of Steel Sheets", ICS 2008, Nagarakawa, Japan, 6-8 October, 2008, pp 60-66.
19. "The Effect of Casting, Rolling, and Heat Treatment on Microstructures and Mechanical Properties of Strips of AA6111 produced on a Horizontal Single Belt Strip Caster (HSBC)", Proceedings of LMPC 2007 International Symposium on Liquid Metal Processing and Casting, September 2-5, 2007, Nancy, France, pp.295-301.
20. "Ab-Initio Predictions of Interfacial Heat Flows during The High Speed Thin Strip Casting Of Metals And Alloys", Light Metals 2008, Ed. David H. DeYoung, TMS (The Minerals, Metals and Materials Society) pp. 755-761.
21. "Study of Microstructure and Mechanical Properties of Continuously Cast AA6111 Strips Following Casting, Rolling and Heat Treatments", Proceedings of MS&T 2007, Materials Science & Technology 2007 Conference and Exhibition, September 16-20, 2007, Detroit, pp. 77-89.
22. "Study on Heat Transfer, and Microstructure Evolution during Horizontal Strip Casting of AA611", Light Metal 2007, TMS Annual Meeting 2007, Orlando, February 25-March1, 2007, pp.753-759.
23. "Numerical Prediction and Experiments on Casting Fe-Based Bulk Amorphous Strips on a Twin Roll Caster and on a Horizontal Single Belt Strip Caster", Light Metal 2006, TMS Annual Meeting 2006, SAN ANTONIO, MARCH 12-16, 2006, pp.109-118
24. "Studies In The Casting Of AA6111 Strip On A Horizontal, Single Belt, Strip Casting SIMULATOR", Light Metal 2006, TMS Annual Meeting 2006, SAN ANTONIO, MARCH 12-16, 2006, pp. 851-856.
25. "Numerical Prediction and Experiments on Casting Fe-Based Amorphous Strips on a Twin Roll Caster and a Horizontal Single Belt Strip Caster", ICS Proceeding 2005, Charlotte, North Carolina, May 9-12, 2005. pp.713-719.
26. "Numerical Simulation of the Coupled Molten Steel Flow and Heat Transfer, Solidification in Slab Continuous Casting Mold", Asia Steel International Conference-2000, Beijing, pp. 268-272
27. "The Fluid Flow and Inclusion Removal in Tundish by Gas Blowing", ENERGY AND THERMAL ENGINEERING 2000, SHENYANG, pp. 194-198
28. "Analysis of Fiber Orientation in Conductive Fluid by Imposition of DC Magnetic Field and AC Current", CAMP-ISIJ, 1998, Vol.11, P886
29. "Simulation of Inclusion Removal in Tundish by Double-baffle Flow Control", ACTA METALLURGICA SINICA, 1999, Vol.35, No.10, 1107-1111

30. "The Removal of Inclusion in Tundish By gas Blowing", ACTA METALLURGICA SINICA, 2000, Vol.36, No.4, 411-416
31. "The Numerical Simulation of Two Phase Flows and Inclusion Removal in Tundish By Bottom Blowing", INDUSTRIAL HEATING, 2000, No.4, 8-12
32. "Numerical Simulation of Flow Field in a New Mold With Hybrid Magnetic Fields for Continuous Casting", ACTA METALLURGICA SINICA, 2001, Vol.37, No.11, 1223-1227
33. "Water Model Observation and Numerical Simulation of Vortexing Flow at Molten Steel Surface in Continuous Casting Mold", ACTA METALLURGICA SINICA, 2002, Vol.38, No.3, 315 – 320
34. "Experimental Measurement of Magnetic Field in a Novel Flow Control of Mold", ACTA METALLURGICA SINICA, 2002, Vol.15, No.3, 260-266
35. "Application of Blockage Technique in Simulation of Metallurgical Transport Phenomena with Complex Geometry Vessel", J. of Northeastern University, 1998, Vol.19, S1, P193~195
36. "Improving Steel Cleanliness Through Tundish Baffle", J. of Northeastern University, 1998, Vol. 19, S1, 200~203.