

Journal Publication:

1. A cubic formalism for linking dilute and concentrated regions of ternary and multicomponent solutions, K.T. Jacob, B. Konar, G.N.K. Iyengar (2012), Transactions of the Institutions of Mining and Metallurgy, Section C: Mineral Processing and Extractive Metallurgy, 121 (1), pp. 48-54.
2. Thermodynamic modeling of Fe-Sm and Fe-Dy systems, B. Konar, J. Kim, I.-H. Jung (2013), Canadian Metallurgical Quarterly, 52 (3), pp. 321-328.
3. Study of aging and electrochemical behaviour of Al-Li-Cu-Mg alloys, K.S. Ghosh, S. Mukhopadhyay, B. Konar, B. Mishra (2013), Materials and Corrosion, 64 (10), pp. 890-901.
4. Critical systematic evaluation and thermodynamic optimization of the Fe-RE system: RE = La, Ce, Pr, Nd and Sm, B. Konar, J. Kim, I.-H. Jung (2016), Journal of Phase equilibria and Diffusion, 37(4), pp. 438-458.
5. Critical systematic evaluation and thermodynamic optimization of the Fe-RE system: RE = Gd, Tb, Dy, Ho, Er, Tm, Lu, and Y, B. Konar, J. Kim, I.-H. Jung (2017), Journal of Phase equilibria and Diffusion, 38(4), pp. 509-542 (Editor choice award- 2017).
6. Critical evaluation and thermodynamic optimization of the Li-O, and Li₂O-SiO₂ systems, B. Konar, M.A. Van Ende, I.-H. Jung (2017), Journal of European Ceramic Society, 37(5), pp. 2189-2207 (Feature article).
7. Experimental investigation of the LiAlSi₂O₆-MgSiO₃ and LiAlSi₂O₆-CaMgSi₂O₆ isopleths at 1 atm, B. Konar, P. Hudon, I.-H. Jung (2017), Journal of American Ceramic Society, 100(7), pp. 3269-3282.
8. Coupled phase diagram experiments and thermodynamic optimization of the binary Li₂O-MgO and Li₂O-CaO systems and ternary Li₂O-MgO-CaO system, B. Konar, D.G. Kim, I.-H. Jung (2017), Ceramics International, 43(16), pp. 13055-13062.
9. Coupled experimental study and thermodynamic optimization of the K₂O-MgO and K₂O-MgO-SiO₂ systems, D.G. Kim, B. Konar, I.-H. Jung (2017), Metallurgical and Materials Transactions B, 48(5), pp. 2788-2803.
10. Coupled phase diagram experiments and thermodynamic optimization of the binary Li₂O-MgO-SiO₂ system, B. Konar, D.G. Kim, I.-H. Jung (2017), Journal of American Ceramic Society, 101(4), pp. 1711-1726.
11. Coupled phase diagram experiments and thermodynamic optimization of the binary Li₂O-Na₂O-SiO₂ system, B. Konar, P. Hudon, I.-H. Jung (2017), Journal of European Ceramic Society, 38(4), pp. 2074-2089.
12. Critical evaluation and thermodynamic optimization of the Li₂O-MgO-Al₂O₃ system, B. Konar, M.A. Van Ende, I.-H. Jung (2017), Metallurgical and Materials Transactions B, accepted.
13. Critical thermodynamic optimization of the Li₂O-Al₂O₃-SiO₂ system and its application for the thermodynamic analysis of the glass-ceramics, B. Konar, D.G. Kim, I.-H. Jung (2017), Journal of European Ceramic Society, accepted.
14. Critical evaluation and thermodynamic optimization of the K₂O-Al₂O₃-SiO₂ system, D.G. Kim, B. Konar, I.-H. Jung (2017), Ceramic International, submitted.
15. Coupled phase diagram experiments and thermodynamic optimization of the binary Li₂O-CaO-Al₂O₃-SiO₂ system, B. Konar, I.-H. Jung (2017), in preparation.

Conference proceedings:

1. Thermodynamic modeling of the Fe-RE systems for the application of RE in Fe-Nd-B permanent magnet, B. Konar, J. Kim, I.-H. Jung, COM, 2012, Rare Earths TUEPM1-Physical Metallurgy, 7447, September 30th-October 3rd, 2012, Niagara Falls, Canada.
2. Thermodynamic database for oxy-fluoride mold flux, CaO-MgO-Na₂O-K₂O-Li₂O-Al₂O₃-SiO₂-ZrO₂-F, I.-H. Jung, M.A. Van-Ende, D.G. Kim, B. Konar, S.Y. Kwon, Continuous Casting: Mold Flux 2 (8B-5), ASIA Steel 2015, October 5th -8th, 2015, Yokohama, Japan.
3. Application of thermodynamic database to new mold flux design for High-Al steel production, B. Konar, D.G. Kim, M.A. Van Ende, I.-H. Jung, AISTech 2017 The Iron & Steel Technology Conference and Exposition, May 8th -11th, 2017, Nashville, TN, USA.