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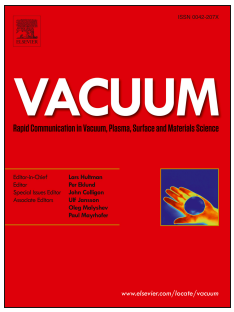

Microstructure, growth kinetics and mechanical properties of interface layer for roll bonded aluminum-steel clad sheet annealed under argon gas protection

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Microstructure, growth kinetics and mechanical properties of interface layer for roll bonded aluminum-steel clad sheet annealed under argon gas protection

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Abstract: In this paper, an annealing treatment was performed to eliminate the work hardening effect of cold roll-bond clad sheets, and the effect of annealing temperature and time on the microstructure evolution at steel/aluminum interface and mechanical properties of aluminum-steel clad sheet were investigated. Results showed that the longer the time and the higher the temperature are, the thicker the inter-diffusion zone