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Influence of Rare Earth Elements on Microstructure and Mechanical Properties of Cast High-Speed Steel Rolls

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Abstract: The influence of rare earth (RE) elements on the solidification process and eutectic transformation and mechanical properties of the high-V type cast, high-speed steel roll was studied. Test materials with different RE additions were prepared on a horizontal centrifugal casting machine. The solidification process, eutectic structure transformation, carbide morphology, and the elements present, were all investigated by means of differential scanning calorimetry (DSC) and scanning electron microscopy energy dispersive spectrometry (SEM-EDS). The energy produced by crack initiation and crack extension was analyzed using a digital impact test machine. It was found that rare earth elements increased the tensile strength of the steel by inducing crystallization of earlier eutectic γ -Fe during the solidification process, which in turn increased the solidification temperature and thinned the dendritic grains. Rare earth elements with large atomic radius changed the lattice parameters of the MC carbide by forming rare earth carbides. This had the effect of dispersing long-pole MC carbides to provide carbide grains, thereby, reducing the formation of the gross carbide and making more V available, to increase the secondary hardening process and improve the hardness level. The presence of rare earth elements in the steel raised the impact toughness by changing the mechanism of MC carbide formation, thereby increasing the crack initiation energy.

Key words: eutectic carbide; impact toughness; differential scanning calorimetry; high-speed steel roll; rare earths
CLC number: TG142.4; O621.25 **Document code:** A **Article ID:** 1002-0721(2007)04-0490-05

High-speed steel rolls have been developed considerably in recent years^[1-4]. Compared to traditional rolls, cast high-speed steel rolls used in hot-strip mill F1-F6 work rolls display excellent abrasion resistance, improved quality of products, and reduced rolling costs, and are therefore considered to find potential application in the production of cold-rolling steel rolls.

The type, shape and quantity of carbide formed are the key factors for controlling the quality of the

centrifugally cast high-speed steel rolls, and these factors are directly related to wear resistance, thermal fatigue resistance, surface roughness resistance, frictional coefficient, and rolling load. Therefore, precise control of carbide properties is fundamental for realizing effective high-speed steel roll production. Rare earth elements with high chemical activity have both deoxidizing and desulfurizing capability, and these processes known to influence the solidification process of high-speed steel are still present in the liquid metal state.

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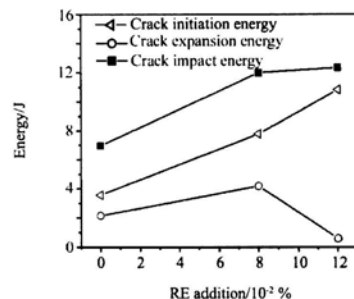


Fig. 7 Influence of rare earth elements on impact energy

3 Conclusions

1. Rare earth elements improved the tensile strength. Thin rare earth inclusion induced the crystallization of earlier eutectic γ -Fe as a nonuniform core, increased the crystallization temperature of the γ -Fe dendritic grains slightly, and caused them to become thin.

2. Rare earth elements made the long-pole shaped MC carbide into tree-like grains, and transformed them to disperse grains of the carbide. Rare earth elements with large atomic radius changed the lattice parameters of the MC carbide by forming rare-earth carbides, thereby limiting the growth along the pole and subsequent formation of uniformly-dispersed grains. The number of gross carbide grains was reduced, causing more V element to dissolve within the matrix, thereby increasing the secondary hardening effect and hardness level.

3. Rare earth elements enhanced the toughness of cast high-speed steel mainly by altering the shape of the MC carbide and increasing the crack initiation energy.

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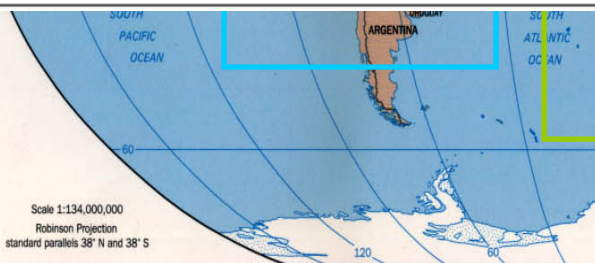
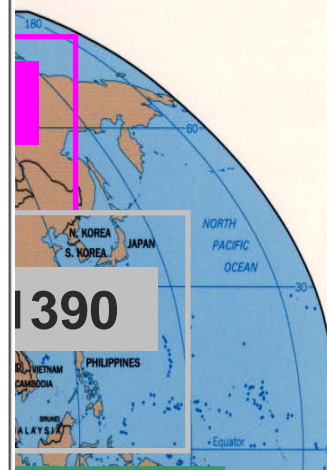
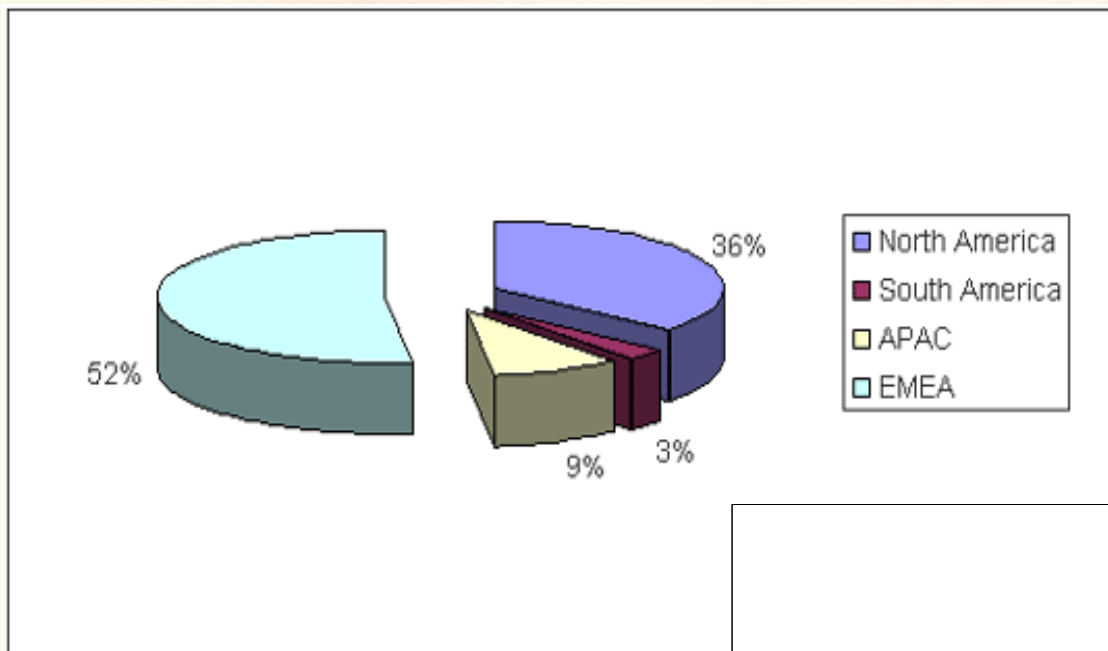
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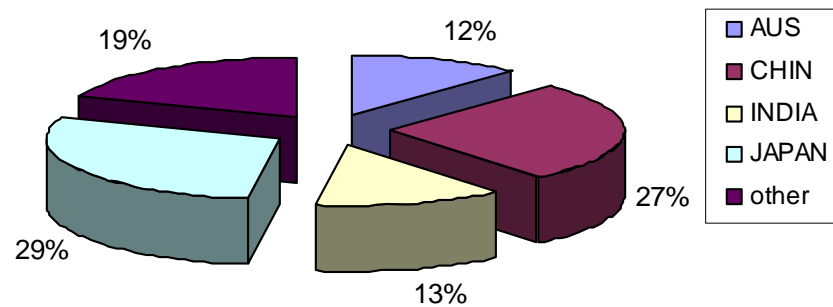
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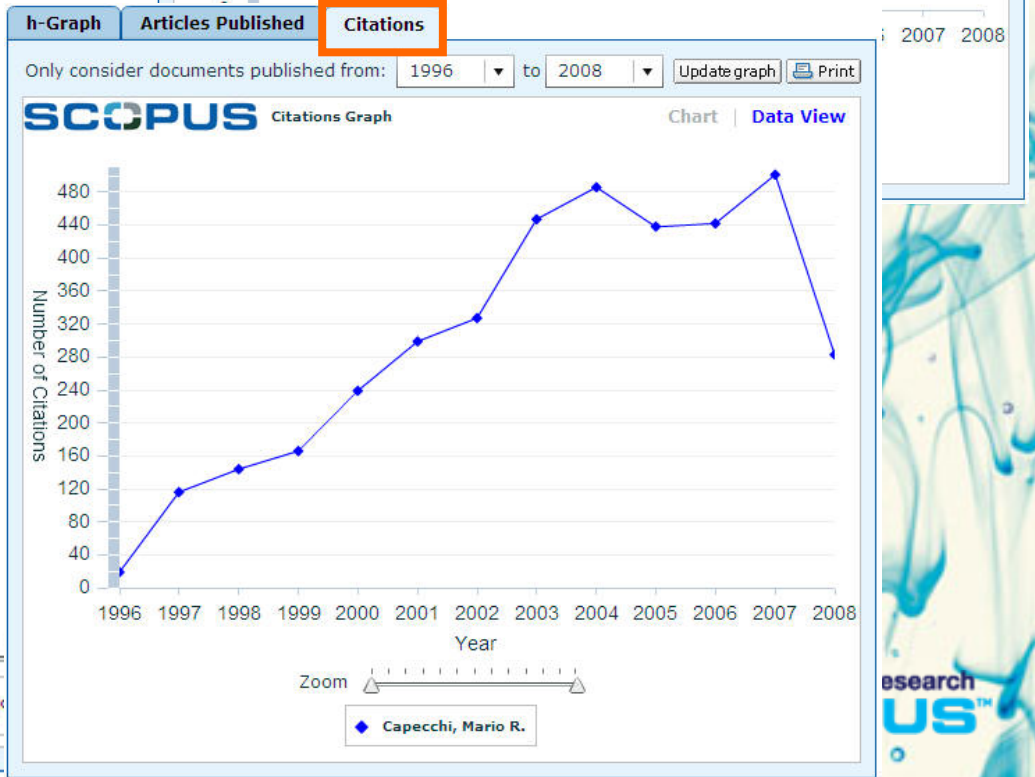
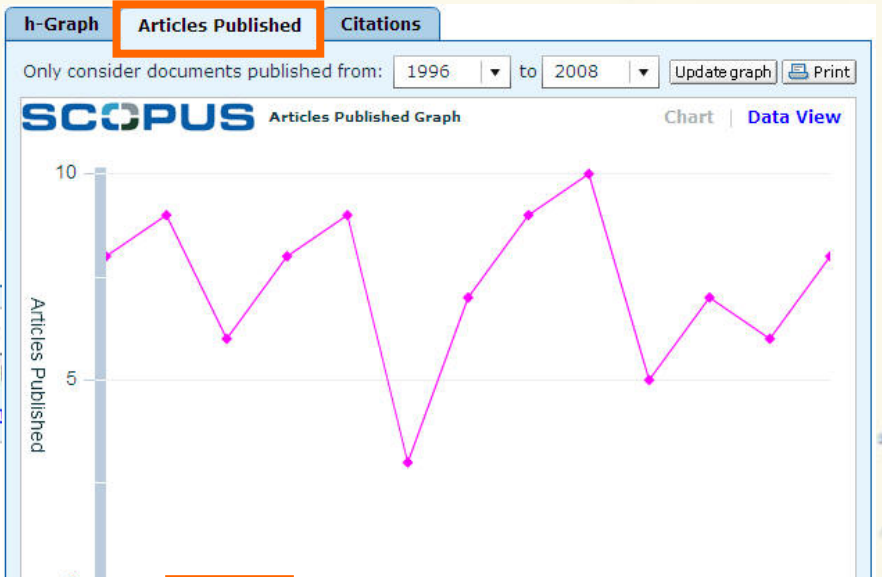
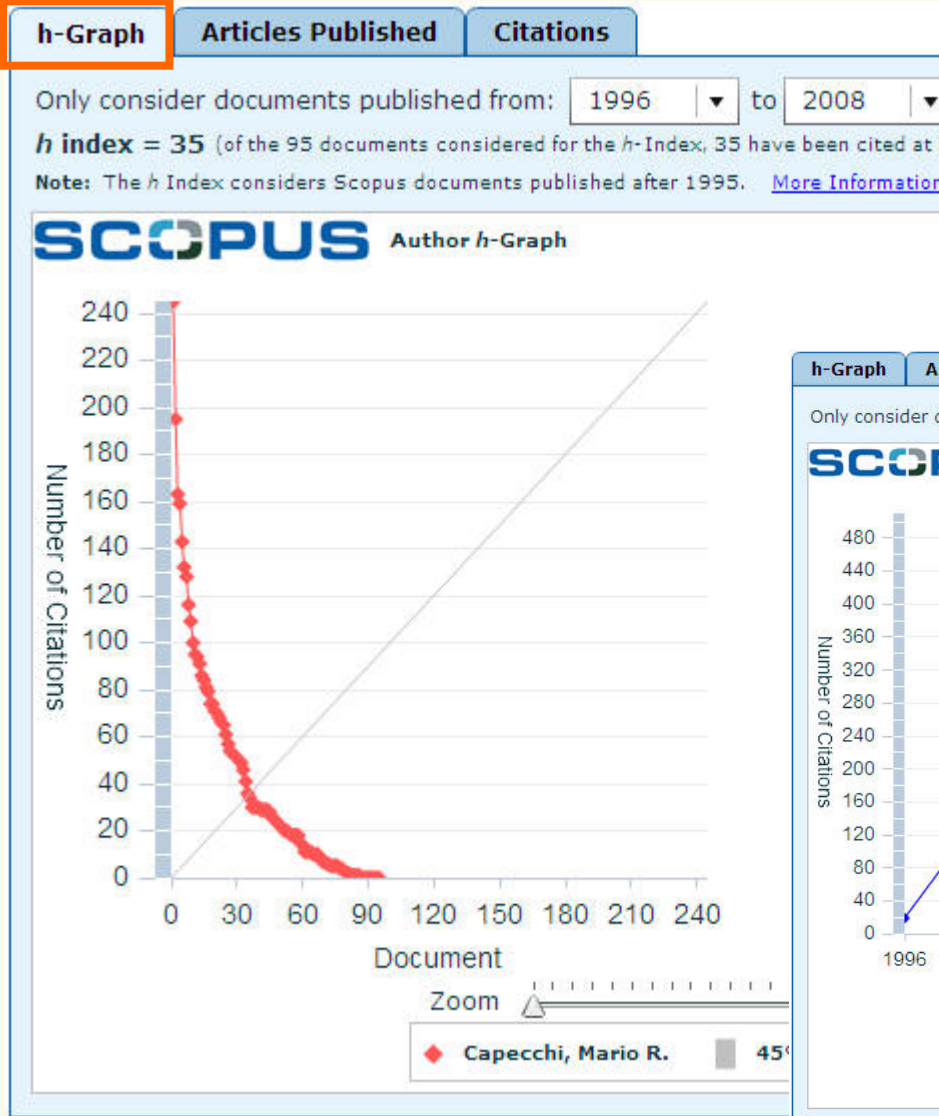
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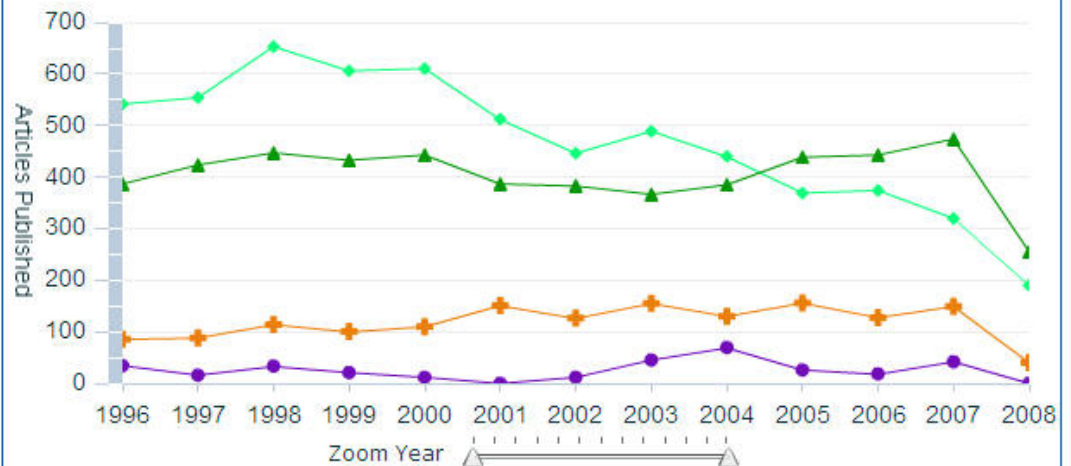
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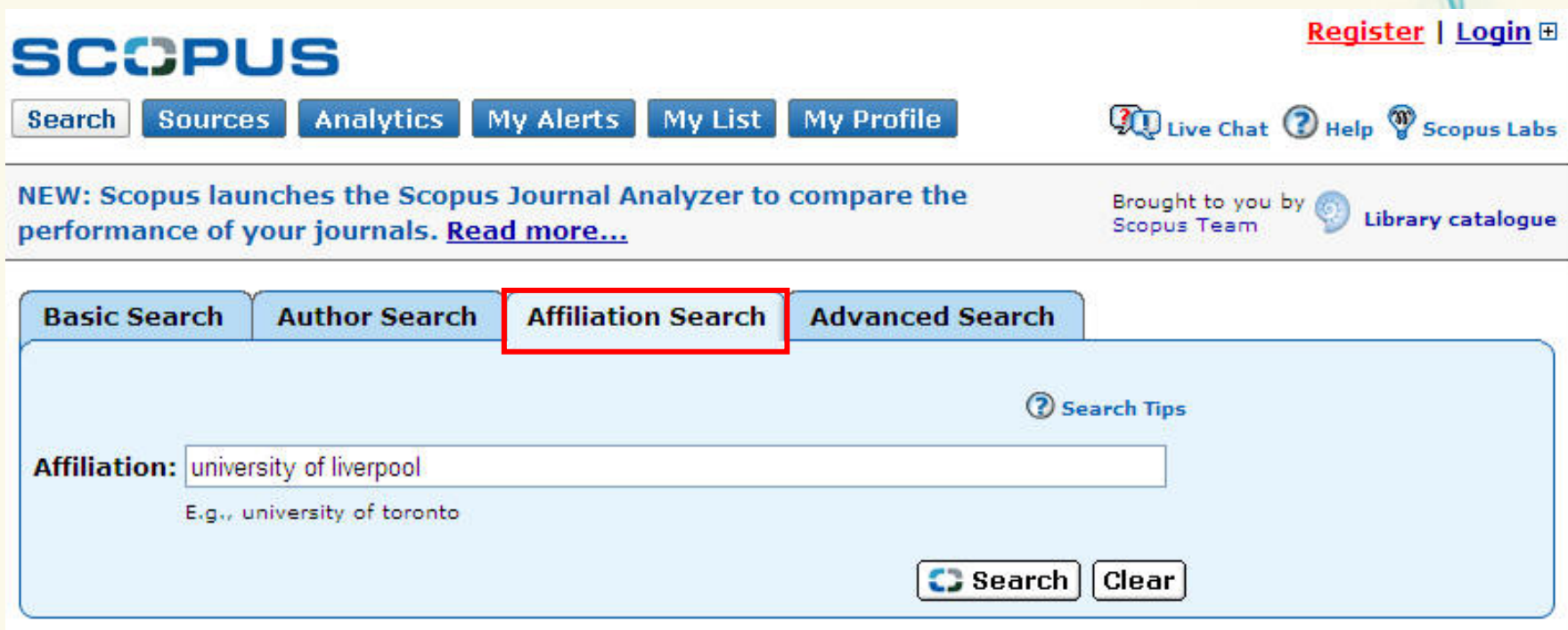
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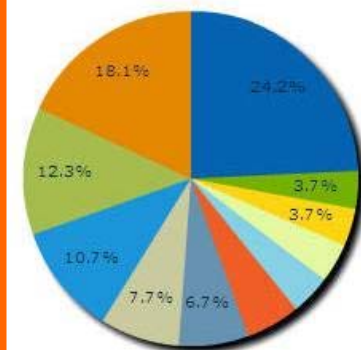
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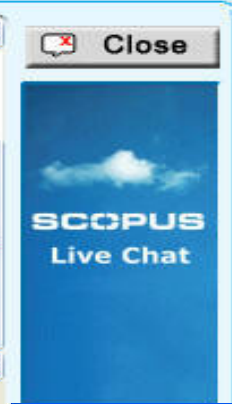
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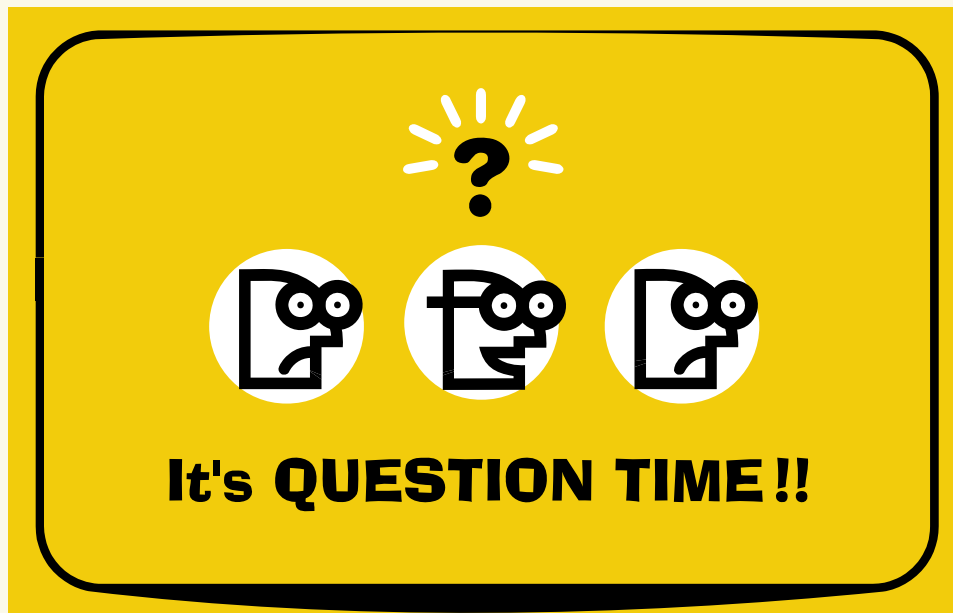
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