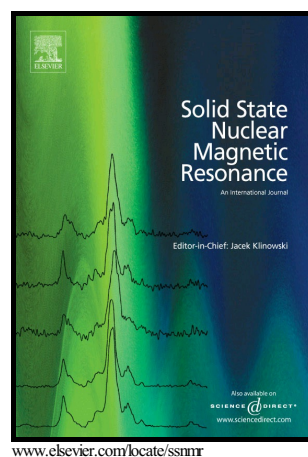


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Structural roles of calcium in alkaline and alkaline-earth aluminosilicate glasses by solid-state  $^{43}\text{Ca}$ ,  $^{17}\text{O}$  and  $^{27}\text{Al}$  NMR

Koji Kanehashi



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**Structural roles of calcium in alkaline and alkaline-earth aluminosilicate glasses by solid-state** **$^{43}\text{Ca}$ ,  $^{17}\text{O}$  and  $^{27}\text{Al}$  NMR**Koji Kanehashi <sup>a</sup><sup>a</sup> *Nippon Steel & Sumitomo Metal Corporation, 20-1 Shintomi, Futtsu, Chiba 293-8511, Japan*

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