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Improvement of soft magnetic properties for distinctly high Fe content amorphous alloys via longitudinal magnetic field annealing

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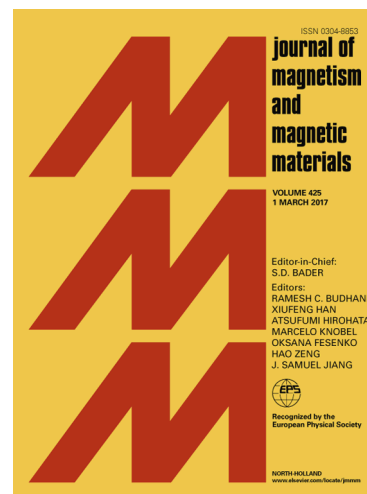
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1 **Improvement of soft magnetic properties for distinctly high Fe content**  
2 **amorphous alloys via longitudinal magnetic field annealing**

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17 **Keywords:** Amorphous alloy; Magnetic field annealing; Soft-magnetic properties;  
18 Magnetic domain.

19 **Abstract**

20 The effects of longitudinal magnetic field annealing on soft-magnetic properties (SMPs)  
21 and magnetic domain structure of  $\text{Fe}_{(82.6-85.7)}\text{Si}_{(2-4.9)}\text{B}_{(9.2-11.2)}\text{P}_{(1.5-2.7)}\text{C}_{0.8}$  amorphous  
22 alloys with a distinctly high Fe content of 93.5-95.5 wt.% for high  $B_s$  were investigated.  
23 It was found that longitudinal magnetic field annealing **could** improve soft-magnetic  
24 properties (**SMPs**) of amorphous alloys effectively, except the one with poor thermal

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