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Pilot-scale produced fermented lentil protects against *t*-BHP-triggered oxidative stress by activation of Nrf2 dependent on SAPK/JNK phosphorilation

Sara Bautista-Expósito, Elena Peñas, Juana Frias, Cristina Martínez-Villaluenga

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Title

A Study on Lattice Matching Method by CoRu Layer between CoCrPtB Magnetic Layer and CrTi-(Mo, W) Alloy Underlayer

Yoshibumi Matsuda^a, Koji Sakamoto^a, Yotsuo Yahisa^a, Yuzuru Hosoe^a, H. Hosoda^b, and Y. Kitamoto^{b*}

^a HGST Japan, a Western Digital Company, Odawara, Kanagawa, 256-8510, Japan

^b Tokyo Institute of Technology, Nagatsuta-cho, Midori-ku, Yokohama, Kanagawa, 226-8502, Japan

* Corresponding author
Tel.: +81(0)45-924-5424
Fax: +81(0)45-924-5433
E-mail: kitamoto.y.aa@m.titech.ac.jp
Postal address: J2-40, Department of Materials Science and Engineering,
Tokyo Institute of Technology, 4259 Nagatsuta, Midori-ku, Yokohama,
226-8502, Japan

Keywords

Lattice matching, Crystal orientation, CoCrPtB magnetic layer, Surface oxidation

Abstract

A nonmagnetic CoRu alloy was studied as a matching layer for the epitaxial growth of a $CoCr_{22}Pt_{14}B_4$ magnetic layer with hcp (11.0) crystal orientation on CrTi-alloy underlayers with bcc (100) crystal orientation. The CoRu matching layer realizes in-plane c-axis orientation, (11.0), of the CoCrPtB layer which has the same hcp structure as the CoRu has, and increases magnetic coercivity due to its magnetocrystalline anisotropy. Moreover, the combination of $CrTi_{10}Mo_{10}$ or $CrTi_{10}W_{10}$ underlayer with the CoRu₄₀ layer could significantly improve the (11.0) orientation of the CoCrPtB layer and increase the coercivity compared to that of $CrTi_{20}$ binary alloy underlayer with the CoRu₄₀ layer.

1. Introduction

Several studies have been implemented in order to increase the in-plane coercivity of magnetic films with fine crystal grain [1-3]. In these studies, CoCrPt alloy magnetic

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