

Controlling the magnetic anisotropy in Pt/Co/Pt ultrathin films by femtosecond laser pulses

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Annealing with single femtosecond laser pulses allows to alter irreversibly the magnetic anisotropy in ultrathin Pt/Co/Pt films. A preference in the magnetization alignment can be turned from an easy-plane type into an easy-axis type or vice versa, depending on the Co film thickness and the incident pulse fluence. The changes of magnetic properties were characterized using MOKE techniques, the modification of the structure was analyzed by ToF-SIMS.

References:

[1] J. Kisielewski et al., J. Appl. Phys. **115**, 053906 (2014)

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