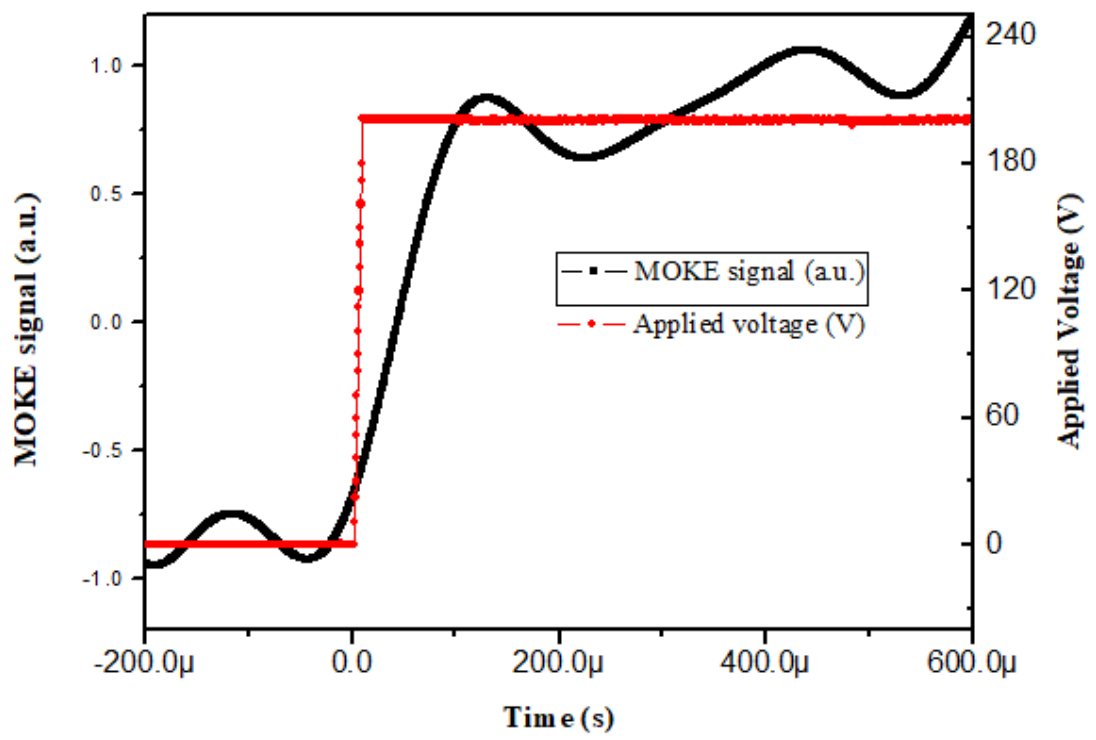


Our new paper in journal of superconductivity and novel magnetism

Congratulations to our new paper " Switching time Probing in electric field assisted magnetization of PbZrTiO₃/Cobalt structure " by M. Shafei, M. M. Tehrani, S. M. Hamidi

Electric field assisted full magnetization switching in a multiferroic heterostructure composed of a PbZrTiO₃ (PZT) substrate and 100nm Cobalt (Co) layer was investigated. For this, by measuring magnetic in plane anisotropy of the sample, using magneto-optical Kerr effect (MOKE), it was shown that the sample has a uniaxial anisotropy. In addition, the coercive field of the Co layer can be tuned by applying an electric field to the PZT which can be used in electric field assisted magnetization reversal in the Co layer. Direct measurement reveals that electric field assisted magnetization switching in layers take place in about 100 μs that is in compatibility with domain wall motion. Our measurement is a promising technique for probing of switching time in electric field assisted magnetization switching elements.



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