Room Temperature Magnetoresistance Effect in Ferroelectric Poly(vinylidene fluoride) Spin Valves

Xianmin Zhang^{1*}, Junwei Tong¹, Huie Zhu^{2*}, Zhongchang Wang³, Lianqun Zhou⁴, Shouguo Wang⁵,

Tokuji Miyashita², Masaya Mitsuishi², Gaowu Qin¹

¹Key Laboratory for Anisotropy and Texture of Materials (Ministry of Education), School of Material

Science and Engineering, Northeastern University, Shenyang 110819, China

²Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Sendai 980-8577,

Japan

³World Premier International Research Center, Advanced Institute for Materials Research, Tohoku

University, Sendai 980-8577, Japan

⁴Suzhou Institute of Biomedical, Engineering and Technology, Chinese Academy of Sciences, Suzhou

215163, China

⁵Department of Materials Physics and Chemistry, University of Science and Technology Beijing, Beijing 100083, China



Figure. S1. Magnetization curves for Co (triangles) and Fe_3O_4 (circles) films measured at room temperature.