

MS-12. Magnetic, superconducting, ferroelectric and multiferroic materials

10 September, 16:45 - 18:45 / 11 September, 16:30 - 18:30

MS-12-P-1426

Magnetic force microscopy investigation of arrays of nickel nanowires and nanotubes

Presenting author: **Tabasum M. R.**

Authors: Tabasum M. R., Piraux L., Nysten B.

MS-12-P-1511

Determination of magnetic flux density of grain boundary phase in Nd-Fe-B permanent magnets

Presenting author: **Murakami Y.**

Authors: Murakami Y., Tanigaki T., Sasaki T., Takeno Y., Park H. S., Matsuda T., Ohkubo T., Hono K., Shindo D.

MS-12-P-1588

Designing and probing ferroic oxide nanoobjects

Presenting author: **Haghi-Ashtiani P.**

Authors: Thorner G., Bai X., Anoufa M., Haghi-Ashtiani P., Karolak F., Bogicevic C., Gemeiner P., Guiblin N., Hamon A. L., Aubry D., Dkhil B., Kiat J. M., Infante I. C.

MS-12-P-1608

Orientation tuning of heterostructures in oxide thin films

Presenting author: **Zhan Q.**

Authors: Zhan Q., Zhu Y. M., Chu Y. H.

MS-12-P-1643

TEM investigation of grain boundaries from Nd₂Fe₁₄B hard magnets

Presenting author: **Zickler G. A.**

Authors: Zickler G. A., Wallisch W., Stöger-Pollach M., Bernardi J., Üstüner K., Fidler J.

MS-12-P-1899

Observation of pure ferroelectric domains

Presenting author: **Arredondo M.**

Authors: Arredondo M., Hart J., Beanland R., Whyte J., Taheri M., Canalias C., Snoeck E.

MS-12-P-1985

Effect of substrate-induced strain on the structure of LaNiO₃ thin films

Presenting author: **López-Conesa L.**

Authors: López-Conesa L., Rebled J. M., Pesquera D., Sánchez F., Dix N., Magén C., Serra R., Casanove M. J., Estradé S., Fontcuberta J., Peiró F.

MS-12-P-2036

Chemical and Defect Analysis in a ZrO₂/LSMO Pillar-Matrix System

Presenting author: **Zhou D.**

Authors: Zhou D., Sigle W., Wang Y., Kelsch M., Gao Y., Habermeier H., van Aken A. P.

MS-12-P-2050

EMCD-investigation of Co-Fe thin films doped with carbon by Analytical TEM

Presenting author: **Wallisch W.**

Authors: Wallisch W., Stöger-Pollach M., Zickler G., Bernardi J., Giannopoulos G., Niarchos D., Fidler J.

MS-12-P-2088

Revealing domains' hierarchy in BaTiO₃

Presenting author: **Holsgrove K. M.**

Authors: Holsgrove K. M., Gregg J. M., Arredondo M.

MS-12-P-2114

The correlation between magnetic properties and the distribution of Heavy Rare Earths (Dy,Tb) in Nd–Fe–B-based Magnets

Presenting author: **Sturm S.**

Authors: Sturm S., Zagar K., McGuinness P., Kobe S.

MS-12-P-2176

Transmission electron microscopy study of Yb₂Ti₂O₇

Presenting author: **Mostaed A.**

Authors: Mostaed A., Beanland R., Lees M R., Balakrishnan G.

MS-12-P-2207

In-situ electric-field transmission electron microscopy studies of Ba(Zr_{0.2}Ti_{0.8})O_{3-x}(Ba_{0.7}Ca_{0.3})TiO₃ ferroelectrics

Presenting author: **Zakhozheva M.**

Authors: Zakhozheva M., Schmitt L. A., Acosta M., Rödel J., Jo W., Kleebe H. J.

MS-12-P-2216

A TEM study of Bi_{0.5}Na_{0.5}TiO₃-based ceramics

Presenting author: **Neagu A.**

Authors: Neagu A., Tai C. W.

MS-12-P-2264

Structural and electrical properties of hydrothermally synthesized BaTiO₃ and BaTiO₃/TiO₂ nanostructures

Presenting author: **Plodinec M.**

Authors: Plodinec M., Gajović A., Šantić A., Willinger M. G., Čeh M., Šipušić J.

MS-12-P-2274

Microstructural Characterization by TEM/STEM and XAFS for Fe_{85.2}Si₁B₉P₄Cu_{0.8} nanocrystalline soft magnetic alloy

Presenting author: **Nishijima M.**

Authors: Nishijima M., Yasuhara A., Matsuura M., Takenaka K., Makino A.

MS-12-P-2523

Atomic resolution electronic state analysis in La₂CuO₄

Presenting author: **Haruta M.**

Authors: Haruta M., Nagai T., Lugg N. R., Neish M. J., Nagao M., Kurashima K., Allen L. J., Mizoguchi T., Kimoto K.

MS-12-P-2671

TEM AFM study of interface roughness in superconductor/ferromagnet Nb/Co multilayers

Presenting author: **Liu L. Y.**

Authors: Liu L. Y., Chacón Hernandez U. D., Xing Y. T., Suguihiro N. M., Haeussler D., Baggio-Saitovitch E., Jaeger W., Solórzano-Naranjo I. G.

MS-12-P-2728

EBSD Study of Coincide Site lattice Grain Boundaries in SrTiO₃ based Thermoelectric

Presenting author: **Azough F.**

Authors: Azough F., Gholinia A., Freer R.

MS-12-P-2754

A TEM study of ferromagnetic τ -phase and phase transformation in a Mn-Al alloy

Presenting author: **Dhanalakshmi P.**

Authors: Dhanalakshmi P., Chattopadhyay K., Madras G., Srivastava C.

MS-12-P-2788

STEM-EELS Study of SrTiO₃ Based Thermoelectric

Presenting author: **Azough F.**

Authors: Azough F., Jackson S. S., Freer R., Kepaptsoglou D., Ramasse Q. M.

MS-12-P-2846

Microscopic Investigation on Domain Development in Ferroelectric/Relaxor Composite Oxide

Presenting author: **Gi-Yeop K.**

Authors: Gi-Yeop K., Sung-Dae K., Young Mok R., Seog-Young Y., Si-Young C.

MS-12-P-2912

Re-constructing the phase relations in Co₃₈Ni₃₃Al₂₉ ferromagnetic shape memory alloy

Presenting author: **Kopeček J.**

Authors: Kopeček J., Jurek K., Kopecký V., Klimša L., Seiner H., Sedlák P., Landa M., Dluhoš J., Petreňec M., Hladík L., Doupal A., Heczko O.

MS-12-P-2951

Study on perpendicular exchange bias in sputter-deposited CoO/CoPt multilayers

Presenting author: **Shi J.**

Authors: SHI J., WANG J., Sannomiya T., Nakamura Y.

MS-12-P-2959

Interparticle interactions for assemblies of magnetic nanoparticles with three-dimensional magnetic vortex

Presenting author: **Kim M. K.**

Authors: Kim M. K., Lee H. Y., Jin K., Prasanta D., Lee J. Y., Yoo M. W., Lee J. H., Chu A., Kim M., Nam K. T., Kim S. K.

MS-12-P-2981

Effect of SiC doping on improvement of superconductive properties of MgB₂ wires studied by TEM

Presenting author: **Song M.**

Authors: Song M., Ye S. J., Takeguchi M., Matsumoto A., Togano K., Kumakura H.

MS-12-P-3011

Evidence of a structural and magnetic transition in CaFe₅O₇ at 360K

Presenting author: **Pelloquin D. E.**

Authors: Pelloquin D. e., Delacotte C. h., Hübner F. I., Bréard Y. o., Hébert S. y.

MS-12-P-3112

Nanoscale investigation of domain-wall pinning and its pinning site

Presenting author: **Masseboeuf A.**

Authors: Masseboeuf A., Nguyen V. D., Salvador V., Bayle-Guillemaud P., Vila L., Marty A., Attané J. P.

MS-12-P-3182

Order-disorder phenomena in oxygen deficient Ruddlesden-Popper phases

Presenting author: **Ruiz-González L. M.**

Authors: Ruiz-González L. M., González-Merchante D., Cortés-Gil R., Alonso J., González-Calbet J. M.

MS-12-P-3201

Study of magnetic FeRh nanoalloys : structure and chemical order

Presenting author: **Castiella M.**

Authors: Castiella M., Tan R., Respaud M., Gatel C., Casanove M. J.

MS-12-P-3214

Hole attractors characterized by aberration corrected microscopy in the La-Ca-Mn-O system

Presenting author: **Cortés-Gil R.**

Authors: Cortés-Gil R., González-Merchante D., Ruiz-González L., Trasobares S., Alonso J. M., González-Calbet J. M.

MS-12-P-3223

E-beam induced epitaxial growth at amorphous LAO/STO interface

Presenting author: **Kim J. Y.**

Authors: Kim J. Y., Moon S. Y., Baek S. H., Jang H. W., Park E. S., Chang H. J.

MS-12-P-3263

Study of structural defects in Fe₃O₄ thin films: atomic scale correlation between imaging and spin calculations

Presenting author: **Gilks D.**

Authors: Gilks D., Evans R., Matsuzaki K., McKenna K., Lari L., Susaki T., Lazarov V. K.

MS-12-P-3272

Atomic and electronic structure of Fe₃O₄ oxides heterostructures

Presenting author: **Gilks D.**

Authors: Gilks D., Lari L., Matsuzaki K., Cai Z., Ziemer K., Susaki T., Lazarov V. K.

MS-12-P-3406

Characterization of BaTiO₃/CoFe₂O₄ thin films prepared by sol-gel process

Presenting author: **Mohallem N. S.**

Authors: Mohallem N. S., Andrade H. R., Seara L. M.

MS-12-P-3485

Anisotropic nanoscale strain in un-twinned YBa₂Cu₃O_{7-x} superconducting thin films grown on (110)MgO substrates

Presenting author: **Ciancio R.**

Authors: Ciancio R., Orgiani P., Galindo P., Arpaia R., Bauch T., Lombardi F., Carlino E.

MS-12-P-3531

Atomic Structure and Properties of Charged Domain Walls in Ferroelectrics

Presenting author: **Pan X. Q.**

Authors: Li L., Gao P., Nelson C. T., Jokisaari J. R., Zhang Y., Kim S. J., Melville A., Adamo C., Schlom D. G., Pan X. Q.

MS-12-P-5956

Investigation of the microstructure of Fe_{67.7}B₂₀Cr₁₂Nb_{0.3} glassy ribbons using high resolution transmission electron microscopy

Presenting author: **Whitmore L.**

Authors: Whitmore L., Ababei G., Stoian G., Lupu N., Chiriac H., Budeanu L.

MS-12-P-5989

Magnetic imaging of ordered arrays of nanowires

Presenting author: **Ivanov Y. P.**

Authors: Ivanov Y. P., Chuvilin A., Kosel J.

MS-12-P-6018

EM of FeTe(Se,S) superconductors

Presenting author: **Vasiliev A. L.**

Authors: Vasiliev A. L., Presniakov M. Y., Bondarenko V. I.