FOX - PUBLICATIONS 2008-2012

Publié le 23 janvier 2020 – Mis à jour le 20 février 2020

2012

Hamie A., Dumont Y., Popova E., Fouchet A., Warot-Fonrose B., Gatel C., Chikoidze E., Scola J., Berini B., Keller N.

Investigation of high quality magnetite thin films grown on SrTiO3(001) substrates by pulsed lased deposition

Thin Solid Films 525, 115 (2012)

http://dx.doi.org/10.1016/j.tsf.2012.10.076

Popova E., Magdenko L., Niedoba H., Deb M., Dagens B., Berini B., Vanwolleghem M., Vilar C., Gendron F., Fouchet A., Scola J., Dumont Y., Guyot M., Keller N.

Magnetic properties of the magnetophotonic crystal based on bismuth iron garnet

J. Appl. Phys. 112, 093910 (2012)

http://dx.doi.org/10.1063/1.4764345

Deb M., Popova E., Fouchet A., Keller N.
Magneto-optical Faraday spectroscopy of completely bismuth-substituted Bi3Fe5O12 garnet thin films
J. Phys. D: Appl. Phys. 45, 455001 (2012)
http://dx.doi.org/10.1088/0022-3727/45/45/455001

Hong N.H., Park C.-K., Raghavender A.T., Ruyter A., Chikoidze E., Dumont Y.
High temperature ferromagnetism in cubic Mn-doped ZrO2 thin films
J. Magn. Magn. Mater. 324, 3013 (2012)
http://dx.doi.org/10.1016/j.jmmm.2012.04.047

Sahoo S.C., Venkataramani, N., Prasad S., Bohra M., Krishnan R.
Magnetic properties of nanocrystalline CoFe2O4/ZnFe2O4 bilayers
J. Supercond. Nov. Magn. 25, 2653 (2012)
http://dx.doi.org/10.1007/s10948-011-1237-y

Wright K., Scola J., Toffoletti A., Formaggio F., Toniolo C.
Synthesis and preliminary characterisation of a nitronyl nitroxide alpha-amino acid
J. Pept. Sci. 18, S186 (2012)

Barjon J., Chikoidze E., Jomard F., Dumont Y., Pinault-Thaury M.-A., Issaoui R., Brinza O., Achard J., Silva F.
Homoepitaxial boron-doped diamond with very low compensation
Phys. Status Solidi A 209, 1750 (2012)
http://dx.doi.org/10.1002/pssa.201200136

Višovský S., Jakubisová Lišková E., Nývlt M., Krishnan R.
Origin of magneto-optic enhancement in CoPt alloys and Co/Pt multilayers
Appl. Phys. Lett. 100, 232409 (2012)
http://dx.doi.org/10.1063/1.4726121

Sahoo S.C., Venkataramani N., Prasad S., Bohra M., Krishnan R.
Thickness dependent anomalous magnetic behavior in pulsed-laser deposited cobalt ferrite thin film
Appl. Phys. A 106, 931 (2012)
http://dx.doi.org/10.1007/s00339-011-6709-1

Berini B., Mistrik J., Dumont Y., Popova E., Fouchet A., Scola J., Keller N.

Pulsed laser deposition and optical characterizations of the magnetic Samarium orthoferrite
Thin Solid Films 520, 1890 (2012)
http://dx.doi.org/10.1016/j.tsf.2011.09.027

Berini B., Fouchet A., Popova E., Scola J., Dumont Y., Franco N., da Silva R.M.C., Keller N.
High temperature phase transitions and critical exponents of Samarium orthoferrite determined by in-situ optical ellipsometry
J. Appl. Phys. 111, 053923 (2012)
http://dx.doi.org/10.1063/1.3692088

Pinault-Thaury M.-A., Berini B., Stenger I., Chikoidze E., Lusson A., Jomard F., Chevallier J., Barjon J.
High fraction of substitutional phosphorus in a (100) diamond epilayer with low surface roughness
Appl. Phys. Lett. 100, 192109 (2012)
http://dx.doi.org/10.1063/1.4712617

Buil S., Laverdant J., Berini B., Maso P., Hermier J.-P., Quélin X.
FDTD simulations of localization and enhancements on fractal plasmonics nanostructures
Optics Express 20, 11968 (2012)
http://dx.doi.org/10.1364/OE.20.011968

Vidal F., Schio P., Keller N., Zheng Y., Demaille D., Bonilla F. J., Milano J., de Oliveira A. J. A.
Magneto-optical study of slanted Co nanowires embedded in CeO2/SrTiO3(001)
Physica B: Condensed Matter 407, 3070 (2012)
http://dx.doi.org/10.1016/j.physb.2011.12.027

Ribeiro B., Borges R. P., da Silva R. C., Franco N., Ferreira P., Alves E., Berini B., Fouchet A., Keller N., Godinho M.
Structural and magnetic properties of thin films of BaFeO3- deposited by pulsed injection MOCVD
J. Appl. Phys. 111, 113923 (2012)
http://dx.doi.org/10.1063/1.4729269

Kebe F., Peev B., Dudeck M., Claudé P., Dusseau L., Jarrix S., Saigné F., Bernard M., Guyot M., Denise S.

Deorbitation of the nanosatellite Robusta

3rd Int. Conf. on Space Propulsion 2012, 7-10th May, Bordeaux, France (2012)

Guyot M., Denise S., Dusseau L., Jarrix S., Saigné F., Bernard M., Claudé P., Dudeck M.

La propulsion électrostatique pour les satellites. Application au nanosatellite Robusta-3

8ème conférence de la Société Française d'Electrostatique, 3-5 juillet 2012, Cherbourg-Octeville, France (2012)

2011

Lassri H., Hlil E. K., Prasad S., Krishnan R.
Magnetic and electronic properties of nanocrystalline Gd3Fe5O12 garnet
J. Solid State Chem. 184, 3216 (2011)
http://dx.doi.org/10.1016/j.jssc.2011.09.034

Veis M., Lišková E., Antoš R., Višovský S., Kumar N., Misra D.S., Venkataramani N., Prasad S., Krishnan R.
Polar and longitudinal magneto-optical spectroscopy of bismuth substituted yttrium iron garnet films grown by pulsed laser deposition
Thin Solid Films 519, 8041 (2011)
http://dx.doi.org/10.1016/j.tsf.2011.06.007

Chafai K., Salhi H., Lassri H., Yamkane Z., Lassri M., Abid M., Hlil E.K., Krishnan R.
Magnetic studies in evaporated Ni/Pd multilayers
J. Magn. Magn. Mater. 323, 596 (2011)
http://dx.doi.org/10.1016/j.jmmm.2010.10.020

Bohra M., Prasad S., Venkataramani N., Kumar N., Sahoo S.C., Krishnan R.
Narrow Ferromagnetic Resonance Linewidth Polycrystalline Zn-Ferrite Thin Films
IEEE Trans. Magn. 47, 345 (2011)
http://dx.doi.org/10.1109/TMAG.2010.2081664

Sahoo, S.C.; Venkataramani, N.; Prasad, S.; Bohra, M.; Krishnan, R.
Substrate Temperature Dependent Anomalous Magnetic Behavior in CoFe2O4 Thin Film
IEEE Trans. Magn. 47, 337 (2011)
http://10.1109/TMAG.2010.2070791

Berini B., Evain M., Fouchet A., Dumont Y., Popova E., Keller N.
In situ optical Characterization of metal-insulator transition in LaNiO3 and SrTiO3 perovskites in pulsed laser deposition chamber
Phase Transitions 84, 501 (2011)
http://dx.doi.org/10.1080/01411594.2010.540494

Popova E., Warot-Fonrose B., Bonell F., Andrieu S., Dumont Y., Berini B., Fouchet A., Keller N.

Mechanism of the lattice relaxation in thin epitaxial films of iron oxides: Generalization from the case of ilmenite-hematite solid solution
Surf. Sci. 605, 1043 (2011)
http://dx.doi.org/10.1016/j.susc.2011.03.002
Hamie A., Popova E., Dumont Y., Chikoidze E., Warot-Fonrose B., Berini B., Keller N.
Epitaxial growth of the high temperature ferromagnetic semiconductor Fe1.5Ti0.5O3 on silicon-compatible substrate
Appl. Phys. Lett. 98, 232501 (2011)
http://dx.doi.org/10.1063/1.3595271

Scola J., Boullay P., Noun W., Popova E., Dumont Y., Fouchet A., Keller N.
Microstructure and self-exchange coupling in a YFeO3 film
J. Appl. Phys. 110, 043928 (2011)
http://dx.doi.org/10.1063/1.3626749

Scola J., Dumont Y., Keller N., Vallee M., Caputo J.-G., Sheikin I., Lejay P., Pautrat A.
Incomplete spin reorientation in yttrium orthoferrite
Phys. Rev. B 84, 104429 (2011)
http://dx.doi.org/10.1103/PhysRevB.84.104429

Mutelet B., Keller N., Roux S., Flores-Gonzales M. A., Lux F., Martini M., Tillement O., Billotey C., Janier M., Villiers C., Novitchi G., Luneau D., Perriat P.
Size-induced effect upon the Néel temperature of the antiferro/paramagnetic transition in gadolinium oxide nanoparticles
Appl. Phys. A – Materials Science & Processing 105, 215 (2011)
http://dx.doi.org/10.1007/s00339-011-6492-z

Magdenko L., Popova E., Smigaj W., Beauvillain P., Keller N., Gralak B., Gogol P., Megy R., Vanwolleghem M., Dagens B.
Magneto-photonic ring circulator in Bismuth Iron Garnet thin film: design and fabrication
2010 MRS Fall Meeting Proceedings 1291: mrsf10-1291-j05-04 (2011)
http://dx.doi.org/10.1557/opl.2011.384

Pacuski W., Suffczynski J., Osewski P., Kossacki P., Golnik A., Gaj J. A., Deparis C., Morhain C., Chikoidze E., Dumont Y., Ferrand D., Cibert J., Dietl T.
Influence of s,p-d and s-p exchange couplings on exciton splitting in Zn1-xMnxO
Phys. Rev. B 84, 035214 (2011)
http://dx.doi.org/10.1103/PhysRevB.84.035214

Mazouffre S., Dannenmayer K., Bourgeois G., Lejeune A., Guyot M., Denise S., Renaudin P., Cagan V.
Impact of discharge chamber geometry on characteristics of a low-power Hall thruster
RAST 2011 - Proceedings of 5th International Conference on Recent Advances in Space Technologies , art. no. 5966939, 735 (2011)

Lejeune A., Dannenmayer K., Bourgeois G., Mazouffre S., Guyot M., Denise S.
Impact of the channel width on Hall thruster discharge properties and performances
32nd International Electric Propulsion Conference, Wiesbaden, Germany, paper 11-019 (2011)

2010

Sahoo S.C., Venkataramani N., Prasad S., Bohra M., Krishnan R.
Pulse Laser Deposited Nanocrystalline Cobalt Ferrite Thin Films
J. Nanosci. Nanotechnol. 10, 3112 (2010)
http://dx.doi.org/10.1166/jnn.2010.2173

Sahoo S.C., Venkataramani N., Prasad S., Bohra M., Krishnan R.
Stability of nonthermodynamic equilibrium cation distribution frozen during pulsed laser deposition of Co-ferrite thin films
Appl. Phys. A 98, 889 (2010)
http://dx.doi.org/10.1007/s00339-009-5471-0

Chong C., Berini B., Boukheddaden K., Codjovi E., Linares J., Garcia Y., Naik A.D., Varret F.
Characterization of spin crossover crystal surface by AFM
Phys. Status Solidi (a) 207, 1227 (2010)
http://dx.doi.org/10.1002/pssa.200925502

Noun W., Popova E., Bardelli F., Dumont Y., Bertacco, R., Tagliaferri A., Tessier M., Guyot M., Berini B., Keller N.
Determination of yttrium iron garnet superexchange parameters as a function of oxygen and cation stoichiometry
Phys. Rev B 81, 054411 (2010)
http://dx.doi.org/10.1103/PhysRevB.81.054411

Berini B., Fouchet A., Popova E., Tessier M., Denise S., Dumont Y., Keller N.
IR thermometry: a new tool for contactless in situ investigations of metal-insulator transition
Appl. Phys. A 101, 47 (2010)
http://dx.doi.org/10.1007/s00339-010-5756-3

Hamie A., Dumont Y., Popova E., Scola J., Fouchet A., Berini B., Keller N.
Structural, optical, and magnetic properties of the ferromagnetic semiconductor hematite-ilmenite Fe2-xTixO3- thin films on SrTiO3(001) prepared by pulsed laser deposition
J. Appl. Phys. 108, 093710 (2010)
http://dx.doi.org/10.1063/1.3501104

Magdenko L., Popova E., Vanwolleghem M., Pang C., Fortuna F., Maroutian T.,

Beauvillain P., Keller N., Dagens B.
Wafer-scale fabrication of magneto-photonic structures in Bismuth Iron Garnet thin film
Microelectronic Engineering 87, 2437 (2010)
http://dx.doi.org/10.1016/j.mee.2010.04.021

Scola J., Noun W., Popova E., Fouchet A., Dumont Y., Keller N., Lejay P., Sheikin I., Demuer A., Pautrat A.
Spin reorientation induced by a very high magnetic field in domain-structured YFeO3 films: Emergence of perpendicular anisotropy
Phys. Rev. B 81, 174409 (2010)
http://dx.doi.org/10.1103/PhysRevB.81.174409

Habka N., Chikoidze E., Jomard F., Dumont Y., Chevallier J., Barjon J., Mer C., Bergonzo P.
Deuterium-induced passivation of boron acceptors in polycrystalline diamond
J. Appl. Phys. 108, 123701 (2010)
http://dx.doi.org/10.1063/1.3518608

Polovy H., Guerrero R., Scola J., Pannetier-Lecoeur M., Fermon C., Feng G., Fahy K., Cardoso S., Almeida J., Freitas P. P.
Noise of MgO-based magnetic tunnel junctions
J. Magn. Magn. Mater. 322, 1624 (2010)
http://dx.doi.org/10.1016/j.jmmm.2009.05.060

Godlewski M., Wasiakowski A., Ivanov V. Y., Wojcik-Glodowska A., Lukasiewicz M., Guziewicz E., Jakiela R., Kopalko K., Zakrzewski A., Dumont Y.
Puzzling magneto-optical properties of ZnMnO films
Optical materials 32, 680 (2010)
http://dx.doi.org/10.1016/j.optmat.2010.01.034

Medina, M. E., Dumont Y., Greneche J.-M., Millange F.
Fe-III/Fe-II regular charge order in metal-organic framework
Chem. Commun. 46, 7987 (2010)
http://dx.doi.org/10.1039/C0CC02161J

Mazouffre S., Dannenmayer K., Bourgeois G., Guyot M., Denise S., Renaudin P., Cagan V., Dudeck M.

Effect of channel geometry on discharge properties and performances of a low-power Hall effect thrusters
Proceeding Space Propulsion, San Sebastian (2010)

2009

Bohra M., Prasad S., Venketaramani N., Kumar N., Sahoo S.C., Krishnan R.
Magnetic properties of magnetite thin films close to the Verwey transition
J. Magn. Magn. Mater. 321, 3738 (2009)
http://dx.doi.org/10.1016/j.jmmm.2009.07.026

Hassanain N., Lassri H., Berrada A., Krishnan R., Arbaoui A., Loghmarti M., Mzerd A.
Magnetic Properties of Fe90Zr10 Amorphous Ribbons
Sensor Letters 7, 806 (2009)
http://dx.doi.org/10.1166/sl.2009.1152

Mulders A. M., Loosvelt H., Fraile Rodriguez A., Popova E., Konishi T., Temst K., Karis O., Arvanitis D., van Haesendonck C.
On the interface magnetism of thin oxidized Co films: orbital and spin moments
J. Phys.: Condens. Matter 21, 124211 (2009)
http://dx.doi.org/10.1088/0953-8984/21/12/124211

Hong N. H., Chikoidze E., Dumont Y.
Ferromagnetism in laser ablated ZnO and Mn-doped ZnO thin films: A comparative study from magnetization and Hall effect measurements
Physica B – Cond. Mater. 404, 3978 (2009)
http://dx.doi.org/10.1016/j.physb.2009.07.142

Godlewski M., Wojcik-Glodowska A., Guziewicz E., Yatsunenko S., Zakrzewski A., Dumont Y., Chikoidze E., Phillips M. R.
Optical properties of manganese doped wide band gap ZnS and ZnO
Optical Materials 31, 1768 (2009)
http://dx.doi.org/10.1016/j.optmat.2008.12.031

Pautrat A., Scola J.
Narrow-band noise due to the moving vortex lattice in superconducting niobium
Phys. Rev. B 79, 024507 (2009)
http://dx.doi.org/10.1103/PhysRevB.79.024507

2008

Berini B., Keller N., Pigeau B., Dumont Y., Popova E., Franco N., da Silva R.M.C.
Tuning of oxidation states in the LaNiO3-delta perovskite around the insulator-metal transition
J. Appl. Phys. 104, 103539 (2008)
http://doi.dx.org/10.1063/1.3021146

Popova E., Ndilimabaka H., Warot-Fonrose B., Bibes M., Keller N., Berini B., Jomard F., Bouzehouane K., Dumont Y.
Growth of the magnetic semiconductor Fe2-xTix O(3 +/-delta) thin films by pulsed laser deposition
Appl. Phys. A – Materials Science & Processing 93, 669 (2008)
http://doi.dx.org/10.1007/s00339-008-4693-x

Vertruyen B., Cloots R., Abell J.S., Jackson T.J., da Silva R.C., Popova E., Keller N.
Curie temperature, exchange integrals, and magneto-optical properties in off-stoichiometric bismuth iron garnet epitaxial films
Phys. Rev. B 78, 094429 (2008)
http://doi.dx.org/10.1103/PhysRevB.78.094429

Popova E., Warot-Fonrose B., Ndilimabaka H., Bibes M., Keller N. Berini B., Bouzehouane K., Dumont Y.
Systematic investigation of the growth and structural properties of FeTiO(3 +/-delta) epitaxial thin films
J. Appl. Phys. 103, 093909 (2008)
http://doi.dx.org/10.1063/1.2913346

Ndilimabaka H., Dumont Y., Popova E., Desfonds P., Jomard F., Keller N., Basletic M., Bouzehouane K., Bibes M., Godlewski M.
Magnetic and transport properties of the room-temperature ferrimagnetic semiconductor Fe(1.5)Ti(0.5) O(3 +/-delta): Influence of oxygen stoichiometry
J. Appl. Phys. 103, 07D137 (2008)
http://doi.dx.org/10.1063/1.2835479

Laverdant J., Buil S., Berini B., Quelin X.
Polarization dependent near-field speckle of random gold films
Phys. Rev. B 77, 165406 (2008)
http://doi.dx.org/10.1103/PhysRevB.77.165406

MacManus-Driscoll J.L., Fouchet A., Zerrer P., Yu R., Wang H., Yang H., Yoon J., Jia Q.X.
Spontaneous Ordering, Strain Control and Mutlifunctionality in Vertical Nanocomposite Heteroepitaxial Films

Applications of Ferroelectrics, 2008. ISAF 2008. 17th IEEE International Symposium on Applications of Ferroelectrics 1, 109 (2008)
http://doi.dx.org/10.1109/ISAF.2008.4693929

MacManus-Driscoll J. L., Zerrer P., Wang H., Yang H., Yoon J., Fouchet A., Yu R., Blamire M.G., Jia Q.
Strain control and spontaneous phase ordering in vertical nanocomposite heteroepitaxial thin films
Nature Materials 7, 314 (2008)
http://doi.dx.org/10.1038/nmat2124

Sobreiro H., Berini B., Keller N., Schmool D.S.
Transport properties in all oxide magnetic multilayers
Materials Science Forum 587-588, 318 (2008)
http://doi.dx.org/10.4028/www.scientific.net/MSF.587-588.318