- (1) Coulon, J.; Hassini, A.; Gervais, M.; Douy, A.; Champeaux, C.; Lecomte, J.; Ammor, L.; Catherinot, A.; Quoirin, J.-B.; Gervais, F. Optical and Electrical Conductivity of La<sub>0.8</sub>Sr<sub>0.2</sub>MnO<sub>3</sub> Thin Films Deposited by Laser Ablation. *Materials Science and Engineering: B* **2001**, *83* (1–3), 227–230. https://doi.org/10.1016/S0921-5107(01)00532-3.
- (2) Hassini, A.; Gervais, M.; Coulon, J.; Phuoc, V. T.; Gervais, F. Synthesis of Ca<sub>0.25</sub>Cu<sub>0.75</sub>TiO<sub>3</sub> and Infrared Characterization of Role Played by Copper. *Materials Science and Engineering: B* **2001**, 87 (2), 164–168. https://doi.org/10.1016/S0921-5107(01)00709-7.
- (3) Hassini, A.; Gervais, M.; Roger, S.; Simon, P.; Lecomte, J.; Raimboux, N.; Gervais, F. Upshift of Ferromagnetic–Paramagnetic Phase Transition Temperature of La<sub>0.8</sub>Sr<sub>0.2</sub>Mn<sub>1-x</sub>Ru<sub>x</sub>O<sub>3</sub> Probed by Electron Spin Resonance. *Solid State Sciences* **2002**, *4* (7), 907–910. https://doi.org/10.1016/S1293-2558(02)01354-7.
- (4) Noudem, J. G.; Hassini, A.; Gervais, M.; Gervais, F. Processing and Physical Properties of La<sub>0.8-z</sub>Y<sub>z</sub>Sr<sub>0.2</sub>MnO<sub>3</sub> Bulk, Thick Films and Single Crystal. *Solid State Sciences* **2003**, *5* (7), 1001–1007. https://doi.org/10.1016/S1293-2558(03)00132-8.
- (5) Nguyen, H. H.; Sakai, J.; Noudem, J. G.; Hassini, A.; Gervais, M.; Gervais, F. Ru-Doped La<sub>0.7</sub>(Ba–Ca)<sub>0.3</sub>MnO<sub>3</sub> Thin Films: Indirect Evidence of Phase Separation. *J. Phys.: Condens. Matter* **2003**, *15* (38), 6527–6536. https://doi.org/10.1088/0953-8984/15/38/019.
- (6) Nguyen, H. H.; Sakai, J.; Prellier, W.; Hassini, A. Co Distribution in Ferromagnetic Rutile Co-Doped TiO<sub>2</sub> Thin Films Grown by Laser Ablation on Silicon Substrates. *Appl. Phys. Lett.* **2003**, *83* (15), 3129–3131. https://doi.org/10.1063/1.1619227.
- (7) Coulon, J.; Hassini, A.; Gervais, M.; Gervais, F.; Champeaux, C.; Catherinot, A. Growing and Characterization of La<sub>0.8</sub>Sr<sub>0.2</sub>MnO<sub>3</sub> Thin Films on Single Crystal Oxide Substrate. *Materials Science and Engineering: B* **2003**, *104* (3), 141–144. https://doi.org/10.1016/S0921-5107(03)00186-7.
- (8) Nguyen, H. H.; Sakai, J.; Hassini, A.; Noudem, J.; Gervais, M.; Gervais, F. Doping Ru/Cr on B-Site of La-(Ba-Ca)-Mn-O Thin Films: Driving Insulator-to-Metal Transition Temperature Far Apart from Curie Temperature. *Materials Science and Engineering: B* **2003**, *104* (3), 137–140. https://doi.org/10.1016/S0921-5107(03)00185-5.
- (9) Nguyen, H. H.; Hassini, A.; Sakai, J.; Noudem, J. G.; Gervais, M.; Gervais, F. An Enhancement of the Ferromagnetic Volume Fraction in La<sub>0.9</sub>Ba<sub>0.1</sub>Mn<sub>1-x</sub>Cr<sub>x</sub>O<sub>3</sub> Thin Films. *Materials Science and Engineering: B* **2004**, *107* (3), 305–309. https://doi.org/10.1016/j.mseb.2003.12.002.
- (10) Nguyen, H. H.; Sakai, J.; Hassini, A. Ferromagnetism at Room Temperature with a Large Magnetic Moment in Anatase V-Doped TiO<sub>2</sub> Thin Films. *Appl. Phys. Lett.* **2004**, *84* (14), 2602–2604. https://doi.org/10.1063/1.1703848.
- (11) Nguyen, H. H.; Prellier, W.; Sakai, J.; Hassini, A. Fe- and Ni-Doped TiO<sub>2</sub> Thin Films Grown on LaAlO<sub>3</sub> and SrTiO<sub>3</sub> Substrates by Laser Ablation. *Appl. Phys. Lett.* **2004**, *84* (15), 2850–2852. http://aip.scitation.org/doi/10.1063/1.1695103.
- (12) Nguyen, H. H.; Sakai, J.; Prellier, W.; Hassini, A.; Ruyter, A.; Gervais, F. Ferromagnetism in Transition-Metal-Doped TiO<sub>2</sub> Thin Films. *Phys. Rev. B* **2004**, *70* (19), 195204. https://doi.org/10.1103/PhysRevB.70.195204.
- (13) Nguyen, H. H.; Sakai, J.; Hassini, A. Magnetism in V-Doped ZnO Thin Films. *J. Phys.: Condens. Matter* **2005**, *17* (1), 199–204. https://doi.org/10.1088/0953-8984/17/1/018.
- (14) Nguyen, H. H.; Sakai, J.; Prellier, W.; Hassini, A. Transparent Cr-Doped SnO<sub>2</sub> Thin Films: Ferromagnetism beyond Room Temperature with a Giant Magnetic Moment. *J. Phys.: Condens. Matter* **2005**, *17* (10), 1697–1702. https://iopscience.iop.org/article/10.1088/0953-8984/17/10/023/meta.

- (15) Nguyen, H. H.; Sakai, J.; Ruyter, A.; Prellier, W.; Hassini, A.; Brize, V. Ferromagnetic Transition-Metal-Doped Tin Dioxide Thin Films. In *INTERMAG Asia 2005. Digests of the IEEE International Magnetics Conference*, 2005.; IEEE: Nagoya, 2005; pp 775–776. https://ieeexplore.ieee.org/document/1463816.
- (16) Hassini, A.; Gruener, G.; Sopracase, R.; Gervais, M.; Veron, E.; Gervais, F. Optical Conductivity in La<sub>0.8</sub>Sr<sub>0.2</sub>Mn<sub>1-x</sub>Ru<sub>x</sub>O<sub>3</sub>. *Journal of the European Ceramic Society* **2005**, 25 (12), 2093–2095. https://doi.org/10.1016/j.jeurceramsoc.2005.03.015.
- (17) Nguyen, H. H.; Sakai, J.; Hassini, A. Magnetic Properties of V-Doped ZnO Thin Films. *Journal of Applied Physics* **2005**, *97* (10), 10D312. https://doi.org/10.1063/1.1848451.
- (18) Obradors, X.; Puig, T.; Pomar, A.; Sandiumenge, F.; Mestres, N.; Coll, M.; Cavallaro, A.; Romà, N.; Gázquez, J.; González, J. C.; Castaño, O.; Gutierrez, J.; Palau, A.; Zalamova, K.; Morlens, S.; Hassini, A.; Gibert, M.; Ricart, S.; Moretó, J. M.; Piñol, S.; Isfort, D.; Bock, J. Progress towards All-Chemical Superconducting YBa<sub>2</sub> Cu<sub>3</sub>O<sub>7</sub> -Coated Conductors. *Supercond. Sci. Technol.* **2006**, *19* (3), S13–S26. https://iopscience.iop.org/article/10.1088/0953-2048/19/3/003.
- (19) Obradors, X.; Puig, T.; Sandiumenge, F.; Piñol, S.; Mestres, N.; Pomar, A.; Castaño, O.; Cavallaro, A.; Coll, M.; Gázquez, J.; González, J. C.; Gutiérrez, J.; Palau, A.; Hassini, A. Multilayer superconducting tapes which are prepared by means of chemical solution deposition. WO/2006/103302, October 5, 2006.
- (20) Hassini, A.; Pomar, A.; Moreno, C.; Ruyter, A.; Roma, N.; Puig, T.; Obradors, X. Conducting La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub>-Superconducting YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> Epitaxial Bilayers Grown by Chemical Solution Deposition. *Physica C: Superconductivity* **2007**, *460*–*462*, 1357–1358. https://doi.org/10.1016/j.physc.2007.04.188.
- (21) Hassini, A.; Pomar, A.; Gutiérrez, J.; Coll, M.; Romà, N.; Moreno, C.; Ruyter, A.; Puig, T.; Obradors, X. Atomically Flat MOD La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub> Buffer Layers for High Critical Current YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> TFA Films. *Supercond. Sci. Technol.* **2007**, *20* (9), S230–S238. https://iopscience.iop.org/article/10.1088/0953-2048/20/9/S18.
- (22) Hassini, A.; Sakai, J.; Lopez, J. S.; Hong, N. H. Magnetism in Spin-Coated Pristine TiO<sub>2</sub> Thin Films. *Physics Letters A* **2008**, *372* (18), 3299–3302. https://doi.org/10.1016/j.physleta.2008.01.035.
- (23) Carretero-Genevrier, A.; Mestres, N.; Puig, T.; Hassini, A.; Oró, J.; Pomar, A.; Sandiumenge, F.; Obradors, X.; Ferain, E. Single-Crystalline La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub> Nanowires by Polymer-Template-Directed Chemical Solution Synthesis. *Adv. Mater.* **2008**, *20* (19), 3672–3677. https://doi.org/10.1002/adma.200800487.
- (24) Laffez, P.; Napierala, C.; Zaghrioui, M.; Ta Phuoc, V.; Hassini, A.; Ammar, M. R. Thermal Emittance Changes at the Charge Ordering Transition of (Sm<sub>0.35</sub>Ca<sub>0.65</sub>)MnO<sub>3</sub>. *Applied Physics Letters* **2008**, *93* (15). https://doi.org/10.1063/1.2999372.
- (25) Moreno, C.; Abellán, P.; Hassini, A.; Ruyter, A.; del Pino, A. P.; Sandiumenge, F.; Casanove, M.-J.; Santiso, J.; Puig, T.; Obradors, X. Spontaneous Outcropping of Self-Assembled Insulating Nanodots in Solution-Derived Metallic Ferromagnetic La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub> Films. *Adv. Funct. Mater.* **2009**, *19* (13), 2139–2146. https://doi.org/10.1002/adfm.200900095.
- (26) Christien, F.; Pierson, J. F.; Hassini, A.; Capon, F.; Le Gall, R.; Brousse, T. EPMA–EDS Surface Measurements of Interdiffusion Coefficients between Miscible Metals in Thin Films. *Applied Surface Science* **2009**, *256* (6), 1855–1860. https://doi.org/10.1016/j.apsusc.2009.10.019.
- (27) Carretero-Genevrier, A.; Frontera, C.; Hassini, A.; Oro-Sole, J.; Moreno, C.; Obradors, X.;

Puig, T.; Mestres, N. Chemical Solution Growth of  $La_{0.7}Sr_{0.3}MnO_3$  Nanotubes in Confined Geometries. *J Sol-Gel Sci Technol* **2014**, *73* (3), 620–627. https://doi.org/10.1007/s10971-014-3570-7.