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CONCOURS 15/01



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Publications parues ou sous presse dans des revues à comité de lecture : 117

Feature/Perspective/Review articles : 5

Chapitre d'ouvrages : 1

Brevets : 2

Communications à des congrès nationaux et internationaux : 53

Conférences invitées : 17

Communications orales : 28

Communications par affiche : 8

Séminaires sur invitation : 17

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1. Liste des publications dans des revues à comité de lecture

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- P.O.a. *Mechanical alloying and spark plasma sintering of $Cu_{26-x}Zn_xV_2Sn_6S_{32}$ thermoelectric compounds*
C. Bourgès, P. Lemoine, O.I. Lebedev, M. Gilmas, E. Hug, **E. Guilmeau***
Phys. Chem. Chem. Phys. (Soumis)
- P.O.b. *Phonon scattering by non-periodic structural defects in $Zn_{1-x}In_xO$ bulk compounds*
J.B. Lebégorre, C. Brossard, O.I. Lebedev, A. Maignan, **E. Guilmeau***
Dalton Transactions (Soumis)
- P.O.c. *The $BiCu_{1-x}OS$ oxysulfide: copper deficiency and electronic properties*
D. Berthebaud, **E. Guilmeau**, O.I. Lebedev, A. Maignan, J. Gamon and P. Barbour
J. Solid State Chem. (Soumis)
- P.O.d. *The Impact of Charge Transfer and Structural Disorder on the Thermoelectric Properties of Cobalt Intercalated TiS_2*
G. Guélou, P. Vaqueiro, J. Prado-Gonjal, T. Barbier, S. Hébert, **E. Guilmeau**, W. Kockelmann, A. V. Powell
J. Mater. Chem. C (Soumis)
- P.1. *Up-scaled Synthesis Process of Sulphur-based Thermoelectric Materials*
T. Barbier, P. Lemoine, S. Martinet, M. Eriksson, M. Gilmas, E. Hug, G. Guélou, P. Vaqueiro, A. V. Powell, **E. Guilmeau***
RSC Advances (Accepté)
- P.2. *$Ba_{6-3x}Nd_{8+2x}Ti_{18}O_{54}$ Tungsten Bronze: A new high temperature n-type oxide thermoelectric*
F. Azough, R. Freer, S. R. Yeandel, J. D. Baran, M. Molinari, S. C. Parker, **E. Guilmeau**, D. Kepaptsoglou, Q. Ramasse, A. Knox, D. Gregory, D. Paul, M. Paul, A. Montecucco, J. Siviter, P. Mullen, W. Li, T. Mallick, N. Sellami, G. Min, T. Sweet
J. Elec. Mater (Accepté)
- P.3. *Thermoelectric properties of TiS_2 mechanically alloyed compounds*
C. Bourgès, T. Barbier, G. Guélou, P. Vaqueiro, A. V. Powell, N. Barrier, O. Lebedev, Y. Kinemuchi, **E. Guilmeau***
J. Eur. Ceram. Soc. (Accepté)
- P.4. *Thermoelectric materials: a new rapid synthesis process for non-toxic and high-performance tetrahedrite compounds*
T. Barbier, S. Martinet, P. Lemoine, F. Gascoin, A. Kaltzoglou, A.V. Powell, P. Vaqueiro, **E. Guilmeau***
J. Amer. Ceram. Soc. (Accepté)
- P.5. *Photothermoelectric (PTE) Detection of Phase Transitions. Application to Triglycinesulphate (TGS)*
D. Dadarlat, C. Tudoran, V. Surducun, C. Bourgès, P. Lemoine, **E. Guilmeau**
Thermochimica Acta 624 (2016) 21
- P.6. *Searching for new thermoelectric materials: Some examples among oxides, sulfides and selenides (Review article)*
S. Hébert, D. Berthebaud, R. Daou, Y. Bréard, D. Pelloquin, **E. Guilmeau**, F. Gascoin, O. Lebedev, A. Maignan
J. Phys. Cond. Mater. 28 (2016) 013001
- P.7. *Alternative Calorimetry Based on the Photothermoelectric (PTE) Effect: Application to Magnetic Nanofluids*
D. Dadarlat, P. Misse, A. Maignan, **E. Guilmeau**, R. Turcu, L. Vekas, C. Tudoran, M. Depriester, A.H. Sahraoui
Int. J. Thermophys. 36 (2015) 2441

- P.8. *A new wide band gap thermoelectric quaternary selenide $Cu_2MgSnSe_4$*
V. P. Kumar, **E. Guilmeau***, B. Raveau, V. Caignaert, U. V. Varadaraju
J. Appl. Phys. 118 (2015) 155101
- P.9. *On the effects of substitution, intercalation, non-stoichiometry and block layer concept on electron doping and phonon scattering in TiS_2 based compounds (Perspective article)*
E. Guilmeau*, A. Maignan, C. Wan, K. Koumoto
Phys. Chem. Chem. Phys. 17 (2015) 24541
- P.10. *Thermoelectric properties of $Ca_3Co_4O_9-Co_3O_4$ composites*
F. Delorme, P. Diaz-Chao, **E. Guilmeau** and F. Giovannelli
Ceramics International, 41 (2015) 10038
- P.11. *Low thermal conductivity in ternary $Cu_4Sn_7S_{16}$ compound*
C. Bourgès, P. Lemoine, O.I. Lebedev, R. Daou, V. Hardy, B. Malaman, **E. Guilmeau***
Acta Materialia 97 (2015) 180
- P.12. *Synthesis and Thermoelectric properties in the 2D $Ti_{1-x}Nb_xS_3$ trichalcogenides*
P. Misse, D. Berthebaud, O.I. Lebedev, A. Maignan, **E. Guilmeau***
Materials 8 (2015) 2514
- P.13. *Intrinsic effects of substitution and intercalation on thermal transport in two-dimensional TiS_2 single crystals.*
R. Daou, H. Takahashi, S. Hébert, M. Beaumale, **E. Guilmeau**, A. Maignan
J. Appl. Phys. 117 (2015) 165101
- P.14. *Silver intercalation in SPS dense TiS_2 : staging and thermoelectric properties*
T. Barbier, O.I. Lebedev, Y. Bréard, A. Maignan **E. Guilmeau***
Dalton Transactions 44 (2015) 7887
- P.15. *Tuned thermoelectric properties of $TiS_{1.5}Se_{0.5}$ through copper intercalation*
R. Nunna, F. Gascoin, and **E. Guilmeau**
J. All. Comp. 634 (2015) 32
- P.16. *Structural stability of the synthetic thermoelectric ternary and nickel-substituted tetrahedrite phases*
T. Barbier, P. Lemoine, S. Gascoin, O.I. Lebedev, A. Kaltzoglou, A. V. Powell, **E. Guilmeau***
J. All. Comp. 634 (2015) 253
- P.17. *A round robin test of the uncertainty on the measurement of the thermoelectric dimensionless figure of merit of $Co_{0.97}Ni_{0.03}Sb_3$*
E. Alleno, D. Bérardan, C. Byl, C. Candolfi, R. Daou, R. Decourt, **E. Guilmeau**, S. Hébert, J. Hejtmanek, B. Lenoir, P. Masschelein, V. Ohorodniichuk, M. Pollet, S. Populoh, D. Ravot, O. Rouleau, M. Soulier
Review of Scientific Instrument, 86 (2015) 011301
- P.18. *Microwave sintering of Ge-doped In_2O_3 thermoelectric ceramics prepared by slip casting process*
E. Combe, **E. Guilmeau***, E. Savary, S. Marinel, R. Cloots, R. Funahashi, F. Boschini
J. Eur. Ceram. Soc. 35 (2015) 145
- P.19. *The $ZrSe_3$ -type variant of TiS_3 : structure and thermoelectric properties*
E. Guilmeau*, D. Berthebaud, P. Misse, S. Hébert, O. Lebedev, D. Chateigner, C. Martin, A. Maignan
Chem. Mater 26 (2014) 5585
- P.20. *Textured Al-doped ZnO ceramics with isotropic grains*
P. Díaz-Chao, F. Giovannelli, O. Lebedev, D. Chateigner, L. Lutterotti, F. Delorme, **E. Guilmeau***
J. Eur. Ceram. Soc. 34 (2014) 4247
- P.21. *The photothermoelectric technique (PTE), an alternative photothermal calorimetry*
D. Dadarlat, M. Streza, R. C. King, F. Roussel, M. Kuriakose, M. Depriester, **E. Guilmeau**, A. H. Sahraoui
Measurement science and Technology 25 (2014) 015603
- P.22. *Electron doping and phonon scattering in $Ti_{1+x}S_2$ thermoelectric compounds*
M. Beaumale, T. Barbier, Y. Bréard, G. Guelou, A.V. Powell, P. Vaqueiro, **E. Guilmeau***

Acta Materialia 78 (2014) 86

- P.23. *Thermoelectric properties of $In_{0.2}Co_4Sb_{12}$ skutterudites with embedded PbTe or ZnO nanoparticles*
C. Chubilleau, B. Lenoir, C. Candolfi, P. Masschelein, A. Dauscher, **E. Guilmeau**, C. Godart
J. All. Comp. 589 (2014) 513
- P.24. *Thermoelectric properties in the series $Ti_{1-x}Ta_xS_2$*
M. Beaumale, T. Barbier, Y. Bréard, S. Hébert, Y. Kinemuchi, **E. Guilmeau***
J. Appl. Phys. 115 (2014) 043704
- P.25. *Transport and magnetic properties of highly densified CoS_2 ceramic*
S. Hébert, **E. Guilmeau**, D. Berthebaud, O. I. Lebedev, V. Roddatis, A. Maignan
J. Appl. Phys. 114 (2013) 103703
- P.26. *Transport Properties of an Intermetallic with Pseudo-hollandite Structure as a Potential Thermoelectric Material: The Example of $Tl_xCr_5Se_8$*
H. Takahashi, R. Nunna, F. Gascoin, D. Pelloquin, S. Hébert, **E. Guilmeau**
Chem. Mater. 25 (2013) 1809
- P.27. *High temperature thermoelectric properties of $CoSb_3$ skutterudites with PbTe inclusions*
C. Chubilleau, B. Lenoir, P. Masschelein, A. Dauscher, C. Candolfi, **E. Guilmeau**, C. Godart
J. Mater. Sci. 48 (2013) 2761
- P.28. *Influence of ZnO nano-inclusions on the transport properties of the $CoSb_3$ skutterudite*
C. Chubilleau, B. Lenoir, P. Masschelein, A. Dauscher, C. Candolfi, **E. Guilmeau**, C. Godart
J. All. Comp. 554 (2013) 340
- P.29. *A copper-containing oxytelluride as a promising thermoelectric material for waste heat recovery*
P. Vaqueiro, G. Guelou, M. Stec, **E. Guilmeau**, A.V. Powell
J. Mater. Chem. A 1 (2013) 520
- P.30. *From oxides to selenides and sulfides: The richness of the CdI_2 type crystallographic structure for thermoelectric properties (Review article)*
S. Hébert, W. Kobayashi, H. Muguerra, Y. Bréard, R. Nunna, F. Gascoin, **E. Guilmeau**, A. Maignan
Phys. Status Sol. A- Applications and Materials Science 210 (2013) 69-81
- P.31. *Thermoelectric Ceramics for Energy Harvesting (Feature article)*
H. Koumoto, R. Funahashi, **E. Guilmeau**, Y. Miyazaki, A. Weidenkaff, Y.F. Wang, C.L. Wan
J. Amer. Ceram. Soc. 96 (2013) 1-23
- P.32. *Revisiting some chalcogenides for thermoelectricity (Review article)*
A. Maignan, **E. Guilmeau**, F. Gascoin, Y. Bréard, V. Hardy
Sci. Technol. Adv. Mater. 13 (2012) 053003
- P.33. *Transport, thermoelectric, and magnetic properties of a dense Cr_2S_3 ceramic*
A. Maignan, Y. Bréard, **E. Guilmeau**, and F. Gascoin
J. Appl. Phys. 112 (2012) 013716
- P.34. *CdI_2 structure type as potential thermoelectric materials: synthesis and high temperature thermoelectric properties of the solid solution TiS_xSe_{2-x}*
F. Gascoin, R. Nunna, **E. Guilmeau**, Y. Bréard
J. All. Comp. 521 (2012) 121
- P.35. *Synthesis of $In_{2-x}Ge_xO_3$ nanopowders for thermoelectric applications*
E. Combe, S.D. Bhame, **E. Guilmeau***, F. Boschini, R. Cloots
J. Mater. Res. 27 (2012) 500
- P.36. *Tuning of dimensionless figure of merit via boundary scattering in In_2O_3*
Y. Kinemuchi, **E. Guilmeau**, O.I. Lebedev, A. Maignan
J. Appl. Phys. 110 (123304)2011
- P.37. *Improved thermoelectric properties in directionally grown $Bi_2Sr_2Co_{1.8}O_y$ ceramics by Pb for Bi substitution*
A. Sotelo, S. Rasekh, **E. Guilmeau**, MA. Madre, MA. Torres, S. Marinell, JC. Diez
Mater. Res. Bull. 46 (2011) 2537
- P.38. *Mg substitution in $CuCrO_2$ delafossite compounds*
E. Guilmeau*, M. Poienar, S. Kremer, S. Marinell, S. Hébert, R. Frésard, A. Maignan

- Solid State Comm. 151 (2011) 1798**
- P.39. *Preparation of Ni-doped ZnO ceramics for thermoelectric applications*
H. Colder, E. Guilmeau, C. Harnois, S. Marinel, R. Retoux, E. Savary
J. Eur. Ceram. Soc. 31 (2011) 2957
- P.40. *Enhanced Densification and Thermoelectric Performance by Reactive Sintering in the In-Sn-Ga-O System*
T. Zhou, S. D. Bhame, E. Guilmeau,* S. Marinel, B. Raveau
J. Amer. Ceram. Soc. 94 (2011) 3733
- P.41. *Transport and thermoelectric properties in Copper intercalated TiS₂ chalcogenide*
E. Guilmeau,* Y. Bréard, A. Maignan
Appl. Phys. Lett. 99 (2011) 052107
- P.42. *Solution-based synthesis routes to thermoelectric Bi₂Ca₂Co_{1.7}O_x*
A. Sotelo, Sh. Rasekh, M.A. Madre, E. Guilmeau, S. Marinel, J.C. Diez
J. Eur. Ceram. Soc. 31 (2011) 1763
- P.43. *Promising thermoelectric properties in Ag_xMo₉Se₁₁ compounds (3.4<x<3.9)*
T. Zhou, B. Lenoir, M. Colin, A. Dauscher, R. Orabi, P. Gougeon, M. Potel, E. Guilmeau
Appl. Phys. Lett. 98 (2011) 162106
- P.44. *Citrate gel process and thermoelectric properties of Ge-doped In₂O₃ bulk ceramics*
E. Combe, C. Chubilleau, D. Berardan, E. Guilmeau*, A. Maignan, B. Raveau
Powder Tech. 208 (2011) 503
- P.45. *Synthesis and thermoelectric properties of oxygen deficient fluorite derivative Ga_{3-x}In_{5+x}Sn₂O₁₆*
S. D. Bhame, T. Zhou, E. Guilmeau*, Y. Kinemuchi, F. Delorme, B. Raveau
J. Appl. Phys. 108, 093708 (2010)
- P.46. *Effect of Pb substitution on the thermoelectrical properties of textured Bi₂Ca₂Co_{1.7}O_y ceramics prepared by a polymer solution method*
S. Rasekh, M.A. Madre, J.C. Diez, E. Guilmeau, S. Marinel, A. Sotelo
Bol. Soc. Esp. Ceram. V. 49 (2010) 371
- P.47. *High thermoelectric power factor in Fe-substituted Mo₃Sb₇*
C. Candolfi, B. Lenoir, A. Dauscher, B. Malaman, E. Guilmeau, J. Hejtmanek, J. Tobola
App. Phys. Lett. 96 (2010) 262103
- P.48. *Enhancement of the thermoelectric properties of directionally grown Bi-Ca-Co-O through Pb for Bi substitution*
A. Sotelo, E. Guilmeau, Sh. Rasekh, M.A. Madre, S. Marinel, J.C. Diez
J. Eur. Ceram. Soc. 30 (2010) 1815
- P.49. *Transport and magnetic properties of Mo_{2.5}Ru_{0.5}Sb_{7-x}Te_x*
C. Candolfi, B. Lenoir, A. Dauscher, E. Guilmeau, J. Hejtmanek
J. Appl. Phys. 107 (2010) 093709
- P.50. *Thermoelectric properties of layered Ca_{3.95}RE_{0.05}Mn₃O₁₀ compounds (RE = Ce, Nd, Sm, Eu, Gd, Dy)*
S. Lemonnier, E. Guilmeau, C. Goupil, R. Funahashi, J.G. Noudem
Ceramics International 36 (2010) 887
- P.51. *High temperature thermoelectric properties of Mo₃Sb_{7-x}Te_x (0 ≤ x ≤ 1.8)*
C. Candolfi, B. Lenoir, C. Chubilleau, A. Dauscher, E. Guilmeau
J. Phys. Cond. Matter. 22 (2010) 025801
- P.52. *Effect of synthetic methods on the thermoelectrical properties of textured Bi₂Ca₂Co_{1.7}O_x ceramics*
S. Rasekh, M.A. Madre, A. Sotelo, E. Guilmeau, S. Marinel, J.C. Diez
Bol. Soc. Esp. Ceram. V. 49 (2010) 89
- P.53. *Tuning the transport and thermoelectric properties of In₂O₃ bulk ceramics through doping at In-site*
E. Guilmeau,* D. Bérardan, Ch. Simon, A. Maignan, B. Raveau, D. Ovono Ovono, F. Delorme
J. Appl. Phys. 106 (2009) 053715
- P.54. *Improvement of Bi₂Sr₂Co_{1.8}O_x thermoelectric properties by laser floating zone texturing*
J.C. Diez, E. Guilmeau, M.A. Madre, S. Marinel, S. Lemonnier, A. Sotelo

- Solid state Ionics 180 (2009) 827**
- P.55. *On the strong impact of doping in the triangular antiferromagnet CuCrO₂*
A. Maignan, C. Martin, R. Frésard, V. Eyert, **E. Guilmeau**, S. Hébert, M. Poienar, D. Pelloquin.
Solid State Comm. 149 (2009) 962
- P.56. *Beneficial influence of Ru on the thermoelectric properties of Mo₃Sb₇*
C. Candolfi, B. Lenoir, J. Leszczynski, A. Dauscher, **E. Guilmeau**
J. Appl. Phys. 105 (2009) 083701
- P.57. *Transport properties of the Mo₃Sb₇ compound*
C. Candolfi, B. Lenoir, A. Dauscher, **E. Guilmeau**, J. Hejtmanek, J. Tobola, B. Wiendlocha, S. Kaprzyk
Phys. Rev B 79 (2009) 035114
- P.58. *Enhancement of the thermoelectric performances of In₂O₃ by the coupled substitution of M²⁺/Sn⁴⁺ for In³⁺*
D. Bérardan, **E. Guilmeau***, A. Maignan, B. Raveau
J. Appl. Phys. 104 (2008) 1
- P.59. *Microstructure and crystallographic texture of charonia lampas lampas shell*
S. Ouhenia, D. Chateigner, M.A. Belkhir, **E. Guilmeau**
J. Str. Biology 163 (2008) 175
- P.60. *Bi₂Ca₂Co_{1.7}O_x thermoelectric ceramics textured by laser floating zone method*
A. Sotelo, **E. Guilmeau**, M.A. Madre, S. Marinel, S. Lemonnier, J.C. Diez
Bol. Soc. Esp. Ceram. Vid. 47 (2008) 225
- P.61. *Four-leg Ca_{0.95}Sm_{0.05}MnO₃ unileg thermoelectric device*
S. Lemonnier, C. Goupil, J. Noudem, **E. Guilmeau**
J. Appl. Phys. 104 (2008) 014505
- P.62. *Synthesis of calcium carbonate polymorphs in the presence of polyacrylic acid*
S. Ouhenia, D. Chateigner, M.A. Belkhir, **E. Guilmeau**, C. Krauss
J. Cryst. Growth 310 (2008) 2832
- P.63. *Modulated misfit structure of the thermoelectric [Bi_{0.87}CaO₂]₂[CoO₂]_{1.69} cobalt oxide*
H. Muguerra, D. Grebille, **E. Guilmeau**, R. Cloots
Inorg. Chem. 47 (2008) 2464
- P.64. *In₂O₃ : Ge, a promising n-type thermoelectric oxide composite*
D. Bérardan, **E. Guilmeau***, A. Maignan, B. Raveau
Solid State Comm. 146 (2008) 97
- P.65. *The effect of structure on flux instability and on the superconducting properties of the Mo₂Re₃B_x-Mo₃Re₂B_x eutectic*
B. Andrzejewski, **E. Guilmeau**, A. Kowalczyk
Supercond. Sci. Technol 21 (2008) 045008
- P.66. *Intrinsic magnetic properties of In₂O₃ and transition metal doped In₂O₃*
D. Bérardan, **E. Guilmeau***, D. Pelloquin
J. Magn. Magn. Mater. 320 (2008) 983
- P.67. *Neutron diffraction texture analysis and thermoelectric properties of BiCaCoO misfit compounds*
E. Guilmeau*, M. Pollet, D. Grebille, D. Chateigner, B. Vertruyen, R. Cloots, R. Funahashi
Mat. Res. Bull. 43 (2008) 394
- P.68. *Thermoelectric ceramics for generators*
J.G. Noudem, S. Lemonnier, M. Prevel, E.S. Reddy, **E. Guilmeau**, C. Goupil,
J. Eur. Ceram. Soc. 28 (2008) 41
- P.69. *Magnetic properties of bulk Fe-doped indium oxide*
D. Berardan, **E. Guilmeau***
J. Phys. Cond. Mater. 19 (2007) 236224
- P.70. *Superspace crystal symmetry of thermoelectric misfit cobalt oxides and predicted structural models*
D. Grebille, H. Muguerra, **E. Guilmeau**, H. Rousselière, R. Funahashi
Acta Cryst. B 63 (2007) 373

- P.71. *Superconducting properties of $\text{Mo}_2\text{Re}_3\text{B}_x\text{-Mo}_3\text{Re}_2\text{B}_x$ eutectic*
B. Andrzejewski, **E. Guilmeau**, A. Kowalczyk, W. Jurga
Acta Physica Polonica A 111 (2007) 727
- P.72. *Does the orbital degeneracy plays any role in the high thermopower of lamellar cobaltites?*
M. Pollet, **E. Guilmeau**, D. Grebille, J.F. Fagnard, R. Cloots
J. Appl. Phys. 101 (2007) 083708
- P.73. *Nano-block coupling effect in Iodine intercalated Bi/Ca/Co/O layered cobaltite*
E. Guilmeau*, M. Pollet, D. Grebille, H. Muguerra, M. Hervieu, R. Cloots, M. Mikami, R. Funahashi
Inorg. Chem. 46 (2007) 2124
- P.74. *Development of ceramic thermoelectric oxides for generator*
J-G. Noudem, S. Lemonnier, M. Prevel, E.S. Reddy, **E. Guilmeau**, C. Goupil
Key Eng. Mater. 352 (2007) 245
- P.75. *Effect of Bi Substitution on Microstructure and Thermoelectric Properties of Polycrystalline $[\text{Ca}_2\text{CoO}_3]_p\text{CoO}_2$*
M. Mikami, N. Ando, **E. Guilmeau**, R. Funahashi
J. J. Appl. Phys. 45 (2006) 4152
- P.76. *Enhancement of the thermoelectric properties of $\text{Ca}_3\text{Co}_4\text{O}_9$ bulk material by using large grain sized powder*
M. Mikami, **E. Guilmeau**, R. Funahashi, K. Chong, D. Chateigner
J. Mater Res. 20 (2005) 2491
- P.77. *Synthesis and Thermoelectric properties of $\text{Bi}_{2.5}\text{Ca}_{2.5}\text{Co}_2\text{O}_x$ layered cobaltites*
E. Guilmeau*, M. Mikami, R. Funahashi, D. Chateigner
J. Mater. Res. 20 (2005) 1002
- P.78. *Quantitative texture analysis of grain-aligned $[\text{Ca}_2\text{CoO}_3][\text{CoO}_2]_{1.62}$ ceramics processed by the reactive-templated grain growth (RTGG) method*
E. Guilmeau*, H. Itahara, D. Chateigner, D. Grebille, T. Tani
J. Appl. Phys. 97 (2005) 064902
- P.79. *Rietveld texture analysis of complex oxides: examples of polyphased Bi2223 superconducting and Co349 thermoelectric textured ceramics characterization using neutron and X-ray diffraction*
E. Guilmeau*, D. Chateigner, J. Noudem, R. Funahashi, S. Horii, B. Ouladdiaf
J. Appl. Cryst. 38 (2005) 199
- P.80. *Rietveld texture analysis of alumina ceramics by neutron diffraction*
E. Guilmeau*, D. Chateigner, T. S. Suzuki, Y. Sakka, C. Henrist, B. Ouladdiaf
Chem. Mater. 17 (2005) 102
- P.81. *Combined analysis of textured alumina ceramics by neutron diffraction*
E. Guilmeau*, D. Chateigner, T. S. Suzuki, Y. Sakka, C. Henrist, B. Ouladdiaf
Annual Report 2004, Institut Laue Langevin (ILL), p. 36.
- P.82. *Combined analysis of Bi2223 superconducting bulk materials*
E. Guilmeau*, D. Chateigner, J. Noudem, B. Ouladdiaf
Solid State Phenomena, 105 (2005) 385
- P.83. *Thermoelectric Properties-Texture Relationship in Highly Oriented $\text{Ca}_3\text{Co}_4\text{O}_9$ Composites*
E. Guilmeau*, R. Funahashi, M. Mikami, K. Chong, D. Chateigner
Appl. Phys. Lett. 85 (2004) 1490
- P.84. *Quantitative texture analysis of polyphased oxides by diffraction: example of Bi2223 sinter-forged ceramic and Y123 foam superconductors*
E. Guilmeau*, S. Lambert, D. Chateigner, J. G. Noudem, B. Ouladdiaf
Mat.Sci.Eng. B 104 (2003) 107
- P.85. *Recent developments in processing and performance of hot stacked-sinter forged Bi2223 ceramics*
J.G. Noudem, **E. Guilmeau**, D. Chateigner
Physica C 391 (2003) 265
- P.86. *The effect of MgO addition on the formation and the superconducting properties of the Bi2223 phase*

- E. Guilmeau***, B. Andrzejewski, J. G. Noudem
Physica C 387 (2003) 382
- P.87. *Transport properties of hot-forming textured Bi2223 and single domain YBa₂Cu₃O_y fabric materials*
J.G. Noudem, **E. Guilmeau**, ES. Reddy, M. Noe, GJ. Schmitz
Physica C 386 (2003) 202
- P.88. *Effect of the precursor powders on the final properties of hot-forging Bi2223 textured discs*
E. Guilmeau*, D. Chateigner, J. G. Noudem.
Supercond. Sci. and Technol. 16 (2003) 484
- P.89. *Influence of sinter-forging temperature on the superconducting properties of Bi2223 textured discs*
E. Guilmeau*, J. G. Noudem
Supercond. Sci. Technol. 15 (2002) 1566
- P.90. *Sinter-forging of strongly textured Bi2223 discs with large J_c's : nucleation and growth of Bi2223 from Bi2212 crystallites*
E. Guilmeau*, D. Chateigner, J.G. Noudem
Supercond. Sci. Technol. 15 (2002) 1436
- P.91. *The effect of Bi2201 phase on the intergranular critical field and current density in Bi2223 superconductors*
E. Guilmeau*, B. Andrzejewski, G. Desgardin
Physica C 377 (2002) 304
- P.92. *Modelling of the magnetic behaviour of random granular superconductors by the single junction model*
B. Andrzejewski, **E. Guilmeau**, C. Simon
Supercond. Sci. Technol. 14 (2001) 904

2. Liste des actes de congrès avec comité de lecture

- P.93. *Structural investigation and Indium substitution in the thermoelectric Mn_{2.7}Cr_{0.3}Si₄Al_{2-x}In_x series*
T. Barbier, E. Combe, R. Funahashi, T. Takeuchi, M. Kubouchi, Y. Miyazaki, **E. Guilmeau**, R. O. Suzuki, *International Conference on Thermoelectrics, Juillet 2015, Dresde, Allemagne.*
Journal of Electronic Materials (Accepté)
- P.94. *Thermoelectrics (TE) used as detectors of radiation. An alternative calorimetry based on the photothermoelectric (PTE) effect.*
D. Dadarlat, P. R. N. Misse, A. Maignan, **E. Guilmeau**, M. Depriester, M. Kuriakose, A. Hadj Sahraoui, *Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VII*
Proc. of SPIE Vol. 9258 92582R-1
- P.95. *Mass fluctuation effect in Ti_{1-x}Nb_xS₂ bulk compounds*
M. Beaumale, T. Barbier, Y. Bréard, B. Raveau, Y. Kinemuchi, R. Funahashi, **E. Guilmeau***, *International Conference on Thermoelectrics, Juillet 2013, Kobe, Japon*
J. Elec. Mater. 43 (2014) 1590
- P.96. *Design of Apparatus for Ni/Mg₂Si and Ni/MnSi_{1.75} Contact Resistance Determination for Thermoelectric Legs*
Y. Thimont, F. Gascoin, C. Goupil, **E. Guilmeau***, *International Conference on Thermoelectrics, Juillet 2013, Kobe, Japon*
J. Elec. Mater. 43 (2014) 2023
- P.97. *Ordered-Defect Sulfides as Thermoelectric Materials*
A. Kaltzoglou, P. Vaqueiro, T. Barbier, **E. Guilmeau**, A. V. Powell, *International Conference on Thermoelectrics, Juillet 2013, Kobe, Japon*
J. Elec. Mater. 43 (2014) 2029
- P.98. *Cage-Shaped Mo(9) Chalcogenides: Promising Thermoelectric Materials with Significantly Low Thermal Conductivity*
T. Zhou, B. Lenoir, C. Christophe, A. Dauscher, P. Gall, P. Gougeon, M. Potel, **E. Guilmeau**,

International Conference on Thermoelectrics, Juin 2010, Shanghai, Chine

J. Elec. Mater. 40 (2011) 508

- P.99. *Improved Thermoelectric Properties of Bi-M-Co-O (M = Sr, Ca) Misfit Compounds by Laser Directional Solidification*
J.C. Diez, S.H. Rasekh, M.A. Madre, **E. Guilmeau**, S. Marinel, A. Sotelo, *International Conference on Thermoelectrics, Juin 2009, Freiburg, Allemagne*
J. Elect. Mater. 39 (2010) 1601
- P.100. *Crystal Structure and High-Temperature Thermoelectric Properties of the $Mo_{3-x}Ru_xSb_7$ Compounds*
C. Candolfi, J. Leszczynski, P. Masschelein, C. Chubilleau, B. Lenoir, A. Dauscher, **E. Guilmeau**, J. Hejtmanek, S.J. Clarke, R.I. Smith, *International Conference on Thermoelectrics, Juin 2009, Freiburg, Allemagne*
J. Elect. Mater. 39 (2010) 2132
- P.101. *Thermoelectric Oxides: Effect of Doping in Delafossites and Zinc Oxide*
E. Guilmeau*, A. Maignan, C. Martin, *International Conference on Thermoelectrics, Août 2008, Corvallis, USA*
J. Elec. Mater. 38 (2009) 1104
- P.102. *Thermoelectric properties of Ge doped In_2O_3*
D. Bérardan, **E. Guilmeau***, A. Maignan, and B. Raveau, ICACC 32, Jan. 2008, Daytona Beach, USA,
Ceramic Engineering and Science Proceedings (CESP), Vol. 29, Issue 10, p. 203-210 (2008)
- P.103. *Fabrication and properties of textured Bi-based cobaltite thermoelectric rods by zone melting*
A. Sotelo, **E. Guilmeau**, M.A. Madre, S. Marinel, J. C. Diez, *Electroceramics, Juin 2006, Tolède, Spain.*
J. Eur. Ceram. Soc. 27 (2007) 3697
- P.104. *Comparison of two molten flux process for the elaboration of textured PZT thin plates*
C. Courtois, S. Devemy, P. Champagne, M. Lippert, M. Rguiti, A. Leriche, D. Chateigner, **E. Guilmeau**, *Electroceramics, Juin 2006, Tolède, Spain.*
J. Eur. Ceram. Soc. 27 (2007) 3779
- P.105. *New superconducting phases in $Mo_2Re_3Bx-Mo_3Re_2Bx$ eutectic*
B. Andrzejewski, **E. Guilmeau**, A. Kowalczyk, A. Szlaferek, *New materials for magnetoelectronics, Mai 2007, Bedlewo, Pologne*
Materials Science 25 (2007) 1259
- P.106. *Growth of $[Bi_{0.82}CaO_2]_2[CoO_2]_{1.69}$ by Laser Floating Zone Method*
E. Guilmeau*, A. Sotelo, M. A. Madre, D. Chateigner, D. Grebille, *ICACC 31, Jan. 2007, Daytona Beach, USA*
Ceramic Engineering and Science Proceedings (CESP), Vol. 28, Issue 8, p. 203-210 (2007)
- P.107. *Intercalation in thermoelectric layered cobaltites*
R. Funahashi, **E. Guilmeau**, Y. Maeda, M. Mikami, T. Mihara, *15th Symposium of MRS-Japan, Dec. 2004, Tokyo, Japon.*
Transactions of the MRS-J 30 (2005) 523
- P.108. *Structural features and transport properties of iodine intercalated misfit layer $Bi_2Ca_2Co_2O_x$ single crystals*
E. Guilmeau*, M. Pollet, D. Grebille, H. Muguerra, M. Hervieu, M. Mikami, R. Funahashi, R. Cloots, *ICT 2005, Clemson, USA*
Proceeding IEEE, p. 27-30
- P.109. *Texture of Alumina by neutron diffraction and SEM-EBSD*
E. Guilmeau*, C. Henrist, T.S. Suzuki, Y. Sakka, D. Chateigner, D. Grossin, B. Ouladdiaf, *-14th International Conference on Texture of Materials (ICOTOM), Juillet 2005, Leuven, Belgique*
Materials Science Forum 495-497 (2005) 1395
- P.110. *Texture and Anisotropic Properties of $Ca_3Co_4O_9$ Bulk Materials*
E. Guilmeau*, M. Mikami, D. Chateigner, R. Funahashi, *The 1st Workshop on Anisotropic Science and Technology of Materials and Devices, Oct. 2004, Osaka*
Materials Integration, p.36.

- P.111. *Properties of YBa₂Cu₃O_y textured superconductor foams*
J. G. Noudem, **E. Guilmeau**, D. Chateigner, S. Lambert, E. S. Reddy, G. J. Schmitz, *M2S-Rio, Mai 2003, Rio de Janeiro*
Physica C 408-410 (2004) 655
- P.112. *Performances of hot stacked-sinter forged Bi2223 ceramics*
J. G. Noudem, **E. Guilmeau**, D. Chateigner, D. Bourgault, *M2S-Rio, Mai 2003, Rio de Janeiro*
Physica C 408-410 (2004) 862
- P.113. *Rietveld quantitative texture analysis of Ca₃Co₄O₉ bulk materials by X-ray and neutron diffraction*
E. Guilmeau*, M. Mikami, K. Chong, D. Chateigner, D. Grebille, Y. Sugiura, K. Fujie, S. Horii, J. Shimoyama, K. Kishio, B. Ouladdiaf, R. Funahashi, *International Conference on Thermoelectrics, Juillet 2004, Adelaide, Australie*
Proceeding IEEE
- P.114. *Thermoelectric properties of Bi/Ca/Co/O polycrystalline textured materials*
E. Guilmeau*, M. Mikami, D. Chateigner, R. Funahashi, *International Conference on Thermoelectrics, Juillet 2004, Adelaide, Australie*
Proceeding IEEE
- P.115. *Thermoelectric Properties of textured Ca₃Co₄O₉ Prepared by Large Grain Sized Powder*
M. Mikami, K. Chong, **E. Guilmeau**, D. Chateigner, R. Funahashi, *International Conference on Thermoelectrics, Juillet 2004, Adelaide, Australie*
Proceeding IEEE
- P.116. *Top seeding melt texture growth of NdBaCuO pellets in air*
E. Guilmeau*, F. Giovannelli, I. Monot-Laffez, S. Marinel, J. Provost, G. Desgardin, *Sixième journée de la cryogénie et supraconductivité, Mai 2000, Aussois, France*
Eur. Phys. J. AP. 13 (2001) 157
- P.117. *Melt processing and characterization of bulk NdBaCuO*
Monot-Laffez, F. Tancret, **E. Guilmeau**, G. Desgardin, B. Raveau, *12th International Symposium on Superconductivity, Oct. 1999, Morioka, Japon*
Supercond. Sci. Technol. 13 (2000) 655

3. Chapitre d'ouvrage

Titre: *Thermoelectric Material and Processing Technology*

Chapitre: Oriented Texturing of Layer-structured Oxides, E. Guilmeau

Editeur: Science & Technology Co.,Ltd (Japon) (Publication Mai 2012).

4. Brevets

- B.1. R. Funahashi and E. Guilmeau
"Complex oxide having p-type thermoelectric characteristics"
US 7554029 B2, Juin 2009.
- B.2. D. Bérardan, E. Guilmeau, M. Nazaraly, and J. Choynet
"Thermoelectric materials, thermoelectric elements, and methods of making the same"
EP 2062857 A1, Mai 2009.

5. Liste des conférences invitées

Les conférences ont été données par le candidat.

- C.I.1. Sustainable Functional Materials (SFM) symposium, Scarborough (UK), Avril 2016, "Binary and ternary sulphides as promising thermoelectric materials", E. Guilmeau
- C.I.2. TMS Conference 2016, Nashville, Fév. 2016, "Processing and thermoelectric properties of Cu-based ternary sulphides", E. Guilmeau

- C.I.3. International Conference on Thermoelectric Materials Science, Nagoya, Nov. 2015, *“A future for tetrahedrite bulk compounds?”*, E. Guilmeau
- C.I.4. IUMRS-ICA, Fukuoka, Août 2014, *“Intrinsically low thermal conductivity in complex structures : example of P-type $Cu_{12}Sb_4S_{13}$ and N-type $Cu_4Sn_7S_{16}$ compounds”*, E. Guilmeau
- C.I.5. 5th International Congress on Ceramics (ICC5), Beijing, Août 2014, *“Recent advances in N-type TiS_2 and P-type $Cu_{12}Sb_4S_{13}$ compounds”*, E. Guilmeau
- C.I.6. CIMTEC 2014, 6th Forum on New Materials, Montecatini Terme (Italie), Juin 2014, *“Tuning Thermoelectric Properties of TiS_2 compounds through Intercalation, Mass Fluctuation, and Non-Stoichiometry”*, E. Guilmeau
- C.I.7. EPSRC Workshop, State-of-the-Art & Challenges in Thermoelectric Materials & their Applications, Manchester Fév. 2014, *“Phonon scattering in layered TiS_2 bulk compounds”*, E. Guilmeau
- C.I.8. IUMRS-ICA, Bangalore, Inde, Déc. 2013, *“Thermoelectric properties of TiS_2 based compounds”*, E. Guilmeau
- C.I.9. International Symposium on Inorganic and Environmental Materials (ISIEM), Rennes, Oct. 2013, *“Transport properties in layered thermoelectric chalcogenides”*, E. Guilmeau
- C.I.10. Energy Materials Nanotechnology Fall Meeting 2012, Las Vegas, US, Nov. 2012, *“Non-stoichiometry effect and phonon scattering in TiS_2 based compounds”*, E. Guilmeau
- C.I.11. Thermopower Symposium 'Synthesis and Function of Thermoelectric Materials, Villars sur Olon, Suisse, Août 2011, *“Tuning the lattice thermal conductivity in bulk In_2O_3 based ceramics”*, E. Guilmeau
- C.I.12. 3rd International Congress on Ceramics (ICC3), Osaka, Nov. 2010, *“Thermoelectric properties of In_2O_3 based thermoelectric compounds”*, E. Guilmeau
- C.I.13. CIMTEC 2010, 5th Forum on New Materials, Montecatini Terme (Italie), Juin 2010, *“Recent Advances in In_2O_3 based thermoelectric”*, E. Guilmeau
- C.I.14. IUMRS International Conference, Nagoya, Déc. 2008, *“Lattice thermal conductivity decrease in doped In_2O_3 ”*, E. Guilmeau
- C.I.15. 2nd Workshop on anisotropic materials and devices, Gebze (Turquie), Juin 2008, *“Combined analysis Texture-Microstructure-Phases-Structure of polycrystalline oxides by diffraction”*, E. Guilmeau
- C.I.16. 32nd International Conference on Advanced Ceramics and Composites (ICACC), Daytona Beach (FL), US, Janv. 2008, *“Improved thermoelectric performances in oxide composites”*, E. Guilmeau
- C.I.17. 31st International Conference on Advanced Ceramics and Composites (ICACC), Daytona Beach (FL), US, Janv. 2007, *“Thermopower in $Bi_2Ca_2Co_{1.69}O_x$ misfit cobaltites”*, E. Guilmeau

6. Liste des séminaires

- S.1. Institut Jozef Stefan, Ljubljana, Slovénie, Avril 2015
“Recent advances in layered TiS_2 and $Cu_{12}Sb_4S_{13}$ and $Cu_4Sn_7S_{16}$ complex structures”
- S.2. CICECO-University of Aveiro, Portugal, Juillet 2014
“Thermoelectric properties in layered sulphides”
- S.3. Materials Research Centre, IIT Madras, Chennai, Inde, Déc. 2014
“Recent Advances in thermoelectric sulphide compounds”
- S.4. Normandie Aérospatiale, Rouen, Sept. 2013
« Thermoelectricité: Matériaux et Applications »
- S.5. University of Nagoya, Août 2012
“Non-stoichiometry effect and phonon scattering in TiS_2 based compounds”
- S.6. AIST Tsukuba, Août 2012
“Non-stoichiometry effect and phonon scattering in TiS_2 based compounds”
- S.7. JSPS-CNRS Joint Seminar, Nagoya, Nov. 2011
“Thermoelectric properties of layered Cu_xTiS_2 compounds”
- S.8. Materials forum on thermoelectrics and devices, University of Nagoya, Japon, Nov. 2010
“Thermoelectric properties of fluorite derivative compounds”
- S.9. ENERMAT Workshop Meeting, University of Liverpool, UK, Nov. 2010

- "Thermoelectric Materials and Applications"*
- S.10. Symposium of Thermoelectric Materials and applications, AIST-Kansai, Ikeda, Japon, Déc. 2008
"Recent advances in n-type doped In_2O_3 bulk thermoelectric"
- S.11. National Institute of Advanced Industrial Science and Technology, Osaka, Japon, Jan. 2008
"Improved thermoelectric performances in oxide composites"
- S.12. National Institute of Advanced Industrial Science and Technology, Nagoya, Japon, Mars 2007
"Block-layer, Texture and Thermoelectric properties relationship in misfit cobaltites"
- S.13. National Institute of Advanced Industrial Science and Technology, Osaka, Japon, Mars 2007
"Investigation of the $[\text{Bi}_{0.82}\text{CaO}_2]_2[\text{CoO}_2]_{1.69}$ misfit layered cobaltite: Nanoblock coupling and substitution effects on the thermopower"
- S.14. LPCES, Orsay, Mars 2005
"Investigation of the Micro-(structure)-Texture-Properties relationship in oxide ceramics: $(\text{Bi,Pb})_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\nu}$, $\text{Ca}_3\text{Co}_4\text{O}_9$, $\text{Bi}_2\text{Ca}_2\text{Co}_2\text{O}_x$..."
- S.15. LETAM, Metz, Juin 2004
"Combined analysis Texture-Microstructure-Phases-Structure of polycrystalline oxides by diffraction"
- S.16. Toyota Central Res. & Dev. Labs, Nagoya, Japon, Déc. 2003
"Quantitative texture analysis of polycrystalline oxides by diffraction: Examples of Bi2223 sinter-forged and $\text{Ca}_3\text{Co}_4\text{O}_9$ TGG ceramics"
- S.17. National Institute of Advanced Industrial Science and Technology, Osaka, Japon, Nov. 2003
"Texture and anisotropic properties of Bi2223 superconductors"
- S.18. NIMS-ICYS, Tsukuba, Japon, Août 2003
"Texture analysis of Bi2223 superconductors"

7. Liste des communications orales

Les conférences ont été données par le candidat.

- C.O.1. ECI, Electric Field Assisted Sintering and Related Phenomena Far From Equilibrium, Tomar (Portugal), Mars 2016
"Spark Plasma Sintering and Thermoelectric properties in TiS_2 and ternary sulphide compounds"
- C.O.2. Indo-French LAFICS Meeting, Bangalore (India), Janvier 2016
"Recent advances in thermoelectric N-type TiS_2 and P-type $\text{Cu}_{12}\text{Sb}_4\text{S}_{13}$ tetrahedrite compounds"
- C.O.3. EPSRC Workshop, State-of-the-Art & Challenges in Thermoelectric Materials & their Applications, Loughborough (UK), Avril 2015
"Intrinsically low thermal conductivity in $\text{Cu}_{12}\text{Sb}_4\text{S}_{13}$ and $\text{Cu}_4\text{Sn}_7\text{S}_{16}$ complex compounds"
- C.O.4. Electronic Materials and Applications, EMA, Orlando, USA, Janv. 2014
"Transport properties in layered thermoelectric chalcogenides"
- C.O.5. European Conference on Thermoelectrics (ECT), Noordwijk, Pays Bas, Nov. 2013
"Intercalation, substitution and non stoichiometry : three different approaches to increase phonon scattering in TiS_2 "
- C.O.6. International Conference on Thermoelectrics (ICT), Kobe, Japon, Juillet 2013
"Structure and Thermoelectric properties of Ag Intercalated TiS_2 Compounds"
- C.O.7. MRS Fall Meeting, Boston, USA, Déc. 2012
"Structure and Thermoelectric Properties of TiS_2 based layered compounds"
- C.O.8. IUMRS-ICEM, Yokohama, Japon, Sept. 2012
"Non-stoichiometry effect and phonon scattering in TiS_2 based compounds"
- C.O.9. Annual Meeting of the Japanese Thermoelectric Society, Yokohama, Japon, Août 2012
"Thermoelectrics properties of oxide, sulphide and intermetallic compounds"
- C.O.10. International Conference on Thermoelectrics, Aalborg, Danemark, Juillet 2012
"Anisotropic transport properties in bulk layered Cu_xTiS_2 compounds"
- C.O.11. Workshop on Spark Plasma Sintering, Cap Breton, Oct. 2011

- "Thermoelectric properties of layered Cu_xTiS_2 compounds"*
- C.O.12. International Conference on Thermoelectrics (ICT), Traverse City, USA, Juillet 2011
"Thermoelectric properties of layered Cu_xTiS_2 compounds"
- C.O.13. Matériaux 2010, Nantes, Oct. 2010
Propriétés thermoélectriques de composés In_2O_3 et dérivés
- C.O.14. European Conference on Thermoelectrics (ECT), Como, Italie, Sept. 2010
"Thermoelectric properties of Oxygen Deficient Fluorite Derivative $Ga_{3-x}In_{5+x}Sn_2O_{16}$ compounds"
- C.O.15. International Conference on Thermoelectrics (ICT), Freiburg, Allemagne, Juillet 2009
"Tuning the Transport Properties of In_2O_3 Bulk Ceramics through Doping at In-site"
- C.O.16. GDR Thermoélectricité, Nancy, Juillet 2009
"Dopage et propriétés thermoélectriques de l'oxyde d'indium $In_{2-x}M_xO_3$ "
- C.O.17. MRS Spring Meeting, San Francisco, USA, Avril 2009
"Transport properties in Metal Doped In_2O_3 bulk thermoelectric"
- C.O.18. European Conference on Thermoelectrics (ECT), Paris, France, Juillet 2008
"Control of inclusions dispersion in thermoelectric $In_2O_3/In_2Ge_2O_7$ composites"
- C.O.19. The 24th International Conference on Thermoelectrics (ICT), Clemson, USA, Juin 2005.
"Structural features and transport properties of iodine intercalated misfit layer $[BiCaO_2]_2[CoO_2]_{1.69}$ single crystals"
- C.O.20. The 24th International Conference on Thermoelectrics (ICT), Clemson, USA, Juin 2005
"Thermal and Electrical Evaluation of all oxide thermoelectric modules"
- C.O.21. 15th Symposium of MRS-Japan, Tokyo, Japon, Déc. 2004
"Intercalation in thermoelectric layered cobaltites"
- C.O.22. The 1st Workshop on Anisotropic Science and Technology of Materials and Devices, Osaka, Japon, Oct. 2004
"Texture and Anisotropic properties of $Ca_3Co_4O_9$ bulk materials"
- C.O.23. The Japan Society of Applied Physics (JSAP) Autumn Meeting, Tokyo, Japon, Sept. 2004
"Investigation of the thermoelectric properties of Bi/Ca/Co/O compounds"
- C.O.24. The Thermoelectric Society of Japan Annual Meeting, Tokyo, Japon, Août 2004
"Thermoelectric properties of Bi/Ca/Co/O layered cobaltites"
- C.O.25. The 23rd International Conference on Thermoelectrics (ICT), Adelaide, Australie, Juillet 2004
"Texture-Properties-Microstructure relationship in highly oriented $Ca_3Co_4O_9$ bulk materials"
- C.O.26. 2nd CREST Meeting, Kobe, Juillet 2004
"Combined analysis Texture-Microstructure-Phases-Structure of polycrystalline $Ca_3Co_4O_9$ cobaltites by diffraction"
- C.O.27. The Japan Society of Applied Physics (JSAP) Spring Meeting, Tokyo, Japon, Mars 2004
"Thermoelectric Properties-Texture Relationship in Highly Oriented $Ca_3Co_4O_9$ Composites"
- C.O.28. 5^{èmes} Rencontres du STUDIUM, International workshop on Applications of oxide materials, Tours, France, Mars 2003
Quantitative texture analysis of polyphased oxides by diffraction

8. Communications par affiche

Les posters ont été présentés par le candidat.

- P.1. International Conference on Thermoelectrics (ICT), Freiburg, Allemagne, Juillet 2009
"Tuning the transport properties of In_2O_3 bulk ceramics through doping at In-site"
- P.2. E-MRS Spring Meeting, Strasbourg, Mai 2008
"Thermoelectric properties of In_2O_3 based compounds"
- P.3. Annual Meeting of the Belgian Ceramic Society, Déc., Mons, Belgique
"EBSD texture characterization of non-conductive and superconducting ceramics"
- P.4. ICOTOM 15, Louvain, Belgique, Juillet 2005

- "Texture of Alumina by neutron diffraction and SEM-EBSD"*
- P.5. Journées Scientifiques Francophones, November 2004, Tokyo, Japon
"Thermoelectric Properties-Texture Relationship in Highly Oriented Ca₃Co₄O₉ Composites"
- P.6. International Conference on Thermoelectrics (ICT), Juillet 2004, Adelaide, Australie
"Thermoelectric properties of Bi/Ca/Co/O polycrystalline textured materials"
- P.7. Association Française de Cristallographie (AFC), Juillet 2003, Caen, France
"Combined quantitative texture-phase-structure analysis of Bi2223 polyphased oxides by X-ray and neutron diffraction"
- P.8. Sixième journée de la cryogénie et supraconductivité, Mai 2000, Aussois, France
"Top seeding melt texture growth of NdBaCuO pellets in air"