

Publications

H. Renevier

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Publications régulières (revues à comité de lecture)

1. *Gold effect on chemical bonding in $YBa_2(Cu_{1-y}Au_y)_3O_{6+x}$* . H. Renevier, J.L. Hodeau, T. Fournier, P. Bordet, M. Marezio. *Physica C* **172**, (1990), 183.
2. *The local structure around the Co cations in $YBa_2(Cu_{1-y}Co_y)_3O_{6+x}$ ($0 < y < 0.06$) determined by X-ray absorption spectroscopy*. H. Renevier, J.L. Hodeau, M. Marezio, A. Fontaine, A. Michalowicz, G. Tourillon. *Phys. Rev. B* **47**, (1993), 11398-11410.
3. *Structural deformations in oxidized and reduced $YBa_2(Cu_{1-y}Co_y)_3O_{6+x}$ compounds ($0 < y < 0.05$)*. H. Renevier, J.L. Hodeau, M. Marezio, M. Bessière, E. Elkaïm, S. Lefèbvre. *Physica C* **230**, (1994), 31-41.
4. *Electron- and powder neutron-diffraction studies of $YBa_2(Cu_{1-y}Co_y)_3O_{6+x}$ with $0.05 < y < 0.33$* . H. Renevier, J.L. Hodeau, P. Bordet, M. Marezio, A. Santoro. *Physica C* **220** (1994) 143-159.
5. *Local order in $YBa_2(Cu_{1-y}Co_y)_3O_{6+x}$ studied by anomalous diffuse x-ray scattering*. H. Renevier, X.B. Kan, J.P. Quintana, K.J. Zhang, J.B. Cohen. *J. Mater. Res.* **9**, (1994), 3050-3058.
6. *Anomalous x-ray diffuse scattering of short range order in $Nd_{2-x}Ce_xCuO_{4-y}$* . X.B. Kan, H. Renevier, J.P. Quintana, J.L. Peng, J.B. Cohen. *J. Appl. Phys.* **77**, (1995), 34-40.
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8. *A Selective study of Fe atoms at the interfaces of an Fe/Ir(100) superlattice by means of Diffraction Anomalous Fine Structure*. H. Renevier, J.L. Hodeau, P. Wolfers, S. Andrieu, J. Weigelt, R. Frahm. *Phys. Rev. Lett.* **78**, (1997), 2775.
9. *Population analysis by full-potential X-ray absorption simulations*. Y. Joly, D. Cabaret, H. Renevier, C.R. Natoli. *Phys. Rev. Lett.* **82**, (1999), 2398.
10. *Diffraction-anomalous-fine-structure spectroscopy applied to the study of III-V strained semiconductors*. M.G. Proietti, H. Renevier, G. Armelles, J.F. Bézar, J. García, J.L. Hodeau, P. Wolfers. *Phys. Rev. B* **59**, (1999), 5479-5492.
11. *X-ray absorption Edge separation using Diffraction Anomalous Fine Structure*. B. Ravel, C.E. Bouldin, H. Renevier, J.L. Hodeau, J.F. Bézar. *Phys. Rev. B* **60**, (1999), 778-785.
12. *Resonant "forbidden" reflections in magnetite*. J. Garcia, G. Subias, M.G. Proietti, H. Renevier, Y. Joly, J.L. Hodeau, J. Blasco, M.C. Sanchez, J.F. Bézar. *Phys. Rev. Lett.* **85**, (2000), 578.
13. *Absence of charge ordering below the Verwey transition temperature in magnetite*. J. Garcia, G. Subias, M.G. Proietti, J. Blasco, H. Renevier, J.L. Hodeau, Y. Joly. *Phys. Rev. B* **63**, (2001), 054110.
14. *Interfacial Structure in (111) Au : Ni multilayers investigated by anomalous x-ray diffraction*. T. Bigault, F. Bocquet, S. Labat, O. Thomas, H. Renevier. *Phys. Rev. B* **64**, (2001), 125414.
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16. *Grazing Incidence Diffraction Anomalous Fine Structure of InAs/InP(001) self organized Quantum Wires*. S. Grenier, M.G. Proietti, H. Renevier, L. Gonzalez, J.M. Garcia, J. Garcia Ruiz. *Europhys. Lett.* **57**, (2002), 429.

17. *X-ray anomalous scattering investigations on the charge order in α' - NaV_2O_5* . S. Grenier, A. Toader, J. E. Lorenzo, Y. Joly, B. Grenier, S. Ravy, L. P. Regnault, *H. Renevier*, J. Y. Henry, J. Jegoudez, and A. Revcolevschi. *Phys. Rev. B* **65**, (2002), 180101(R)
18. *Strain determination in ultrathin bcc Fe layers on Si(001) by x-ray diffraction*. P. Bertoncini, P. Wetzel, D. Berling, A. Mehdaoui, B. Loegel, J. C. Peruchetti, G. Gewinner, V. Pierron-Bohnes, J. F. Bézar and *H. Renevier*. *Phys. Rev. B* **65**, (2002), 155425.
19. *Diffraction Anomalous Fine Structure Spectroscopy at the beamline BM2 at the European Synchrotron Radiation Facility*. *H. Renevier*, S. Grenier, S. Arnaud, J.F. Bézar, B. Caillot, J.L. Hodeau, A. Letoublon, M.G. Proietti, B. Ravel. *J. Synchrotron. Rad.*, (2003), **10**, 435-444.
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21. *Strain, size and composition of InAs Quantum Wires, embedded in InP determined via Grazing Incidence X-ray Anomalous Diffraction*. A. Létoublon, V. Favre-Nicolin, *H. Renevier*, M.G. Proietti, O. Marty, C. Monat, M. Gendry, C. Priester. *Phys. Rev. Lett.* **92**, (2004), 186101.
22. *Structural origin of the resonant forbidden reflections $(004n + 2)$ in spinel ferrites*. G. Subias, J. Garcia Ruiz, M.G. Proietti, J. Blasco, *H. Renevier*, J.L. Hodeau, M.C. Sanchez. *Phys. Rev. B* **70**, (2004), 155105.
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25. *Strain profile in GaN quantum dots*. D. Jalabert, J. Coraux, *H. Renevier*, B. Daudin, M.H. Cho, K.B. Chung., D.W. Moon, J.M. Llorens, N. Garro, A. Cros and A. Garcia Cristobal, *Phys. Rev. B* **72**, (2005), 115301.
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35. *Plasma-assisted molecular beam epitaxy growth of GaN nanowires using indium-enhanced diffusion.* O. Landré, R. Songmuang, J. Renard, E. Bellet-Amalric, H. Renevier, B. Daudin. *Appl. Phys. Lett.* **93**, (2008), 183109.
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49. *Characterization of nanocrystalline magnetite thin film low temperature oxidation.* F. Bourgeois, P. Ger-gaud, C. Leclere, H. Renevier, *J. Appl. Phys.* **113**, (2013), 13510.
50. *Strain assisted inter-diffusion in GaN/AlN Quantum Dots.* C. Leclere, V. Fellmann, C. Bougerol, D. Cooper, B. Gayral, M. G. Proietti, H. Renevier, B. Daudin, *J. Appl. Phys.* **113**, (2013), 034311.
51. *Growth, structural and optical properties of AlGa_xN nanowires in the whole composition range.* A. Pierret, C. Bougerol, S. Murcia-Mascaros, A. Cros, H. Renevier, B. Gayral, B. Daudin. *Nanotechnology*, **24**, (2013), 115704.
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54. *Strain-Induced In/Ga Short Range Order in InGa_xN core-shell Nanowires.* C. Leclere, N. A. Katcho, G. Tourbot, B. Daudin, M. G. Proietti, H. Renevier, *J. Appl. Phys.* **116**, (2014), 013517.

Articles de Revue/Chapitres de livres

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4. *Nanostructures in the light of synchrotron radiation : Surface sensitive x-ray techniques and anomalous scattering*. T. Metzger, V. Favre-Nicolin, G. Renaud, *H. Renevier*, T. Schüllli, in *Characterization of semiconductor heterostructures and nanostructures*, Elsevier Science, Amsterdam, 2008.
5. *Multiwavelength anomalous diffraction and diffraction anomalous fine structure to study composition and strain of semiconductor nanostructures*. V. Favre-Nicolin, M. G. Proietti, C. Leclere, N. A. Katcho, M. -I. Richard, *H. Renevier*, *Eur. Phys. J. Special Topics* **208**, (2012), 189.
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“Highlights” et “newsletters”

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4. *Edge separation using DAFS*. B. Ravel, C.E. Bouldin, *H. Renevier*, J.L. Hodeau, J.F. Bézar, *ESRF Newsletter* **31**, (1998).
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6. *Charge ordering and forbidden reflections in magnetite*. J. Garcia, G. Subias, M.G. Proietti, J. Blasco, *H. Renevier*, J.L. Hodeau, Y. Joly. *ESRF Highlights* 1999.
7. *Grazing incidence diffraction anomalous fine structure of InAs/InP(001) self organized quantum wires*. S. Grenier, M.G. Proietti, *H. Renevier*, L. Gonzalez, J.M. Garcia, J.Garcia Ruiz, *ESRF Newsletter* **35**, (2001).
8. *InAs quantum sticks : determination of strain size and composition*. A. Letoublon, V. Favre-Nicolin, *H. Renevier*, M.G. Proietti, C. Monat, M. Gendry, O. Marty, C. Priester. *ESRF Highlights* 2003.
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10. *MAD and DAFS spectroscopy and Molecular Dynamics simulations: a combined approach to probe the structural properties of Ge/Si(001) nano-islands*. *ESRF Highlights* 2010.

Actes de conférences internationales (avec comité de lecture)

1. *Ordering in Fe/Co Substituted YBaCuO and Pb Substituted BiCaSrCuO Superconducting Oxides.* J.L. Hodeau, P. Bordet, J.J. Capponi, C. Chaillout, J. Chenavas, M. Godinho, A.W. Hewat, E.A. Hewat, H. Renevier, A.M. Spieser, P. Strobel, J.L. Tholence, M. Marezio, Progress in high temperature superconductivity, vol 12, (eds. K K Phua et al.), World Scientific publishing Co., (1988).
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6. *Structural properties of Ge/Si(001) nano-islands and AlGaIn nanowires by Diffraction Anomalous Fine Structure and Multiwavelength Anomalous Diffraction.* N.A. Katcho, M.I. Richard, O. Landré, G. Tourbot, M.G. Proietti, H. Renevier, V. Favre-Nicolin, B. Daudin, G. Chen, J.J. Zhang and G. Bauer. J. Phys.: Conf. Ser. **190**, (2009), 012129.
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9. *Local order in YBa₂(Cu_{1-y}Co_y)₃O_{6+x} studied by anomalous diffuse x-ray scattering.* H. Renevier, X.B. Kan, J.P. Quintana, J.B. Cohen, Physica C **235**, (1994), 1275-76.
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14. *Pre-edge structure analysis of Ti K-edge polarized X-ray absorption spectra in TiO₂ by full-potential XANES calculations.* D. Cabaret, Y. Joly, H. Renevier, R. Natoli. J. Synchrotron. Rad. **6**, (1999), 258-260.
15. *Edge separation using Diffraction Anomalous Fine Structure.* B. Ravel, C.E. Bouldin, H. Renevier, J.L. Hodeau, J.B. Bézar. J. Synchrotron. Rad., **6**, (1999), 338-340.
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19. *Valence selective DAFS measurements of Mn in $La_{1/3}C_{2/3}MnO_3$.* B. Ravel, S. Grenier, H. Renevier, Chang-Beom Eom, *J. Synchrotron Rad.* **8**, (2001), 384-386.
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21. *Grazing incidence diffraction anomalous fine structure : a tool for investigating strain distribution and interdiffusion in InAs/InP quantum wires.* A. Letoublon, H. Renevier, M.G. Proietti, C. Priester, J.M. Garcia, L. Gonzalez, *Physica E* **17**, (2003), 541-542.
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