

1. - Personal data

Place of birth: Caracas -Venezuela
Data of birth: 16 October 1950
Nationality: Spain
Marital status: Married, 3 children

Private address: 2 Rue des Eglantiers, F-38360 Sassenage, France
Phone: +33 (0)4 76 26 42 63 home
+33 (0)4 76 88 22 64 (work)
Fax: +33 (0)4 76 88 28 16

E-mail: castro@esrf.fr

WWW: <http://www.esrf.eu/UsersAndScience/Experiments/CRG/BM25>

2. - Education

University studies:

Sept. 1972 - Dec. 1975 Physics at the physics department of the Faculty of Science
Central University of Venezuela; Caracas, Venezuela.

Jan. 1976 – Apr. 1976 Winter school on Interaction of the Radiation with Condensed Matter;
International Center for Theoretical Physics, Trieste, Italy.

Feb. 1978 - Jul. 1982 Ph.D. Student Physical chemistry, at Institute of Physical-chemistry
Ludwig Maximilian Universität; Munich, Germany

Degrees:

Licenciado en Ciencias Físicas (Diplom in Physics)
Universidad Central de Venezuela
Caracas - Venezuela
January 1976

Dr. Ren. Nat. (Ph.D. in Physics)
Ludwig Maximilian Universität
Munich – Germany
July 1982

3. - Positions

Since Mar. 2007	Head of the Spanish CRG BM25 SpLine Beamline at the European Synchrotron ESRF. Grenoble, France. And Senior Scientist (investigador científico, full permanent position) at the Material Science Institute from the Spanish National Research Council (CSIC), Grenoble, Francia.
Mar.1978 – Mar. 2007	Head of the Spanish CRG BM25 SpLine Beamline at the European Synchrotron ESRF. Grenoble, France, the European Synchrotron ESRF. Grenoble, Francia.
Oct. 1996 – Feb. 1998	Scientist in charge of the design and construction of the Spanish CRG BM25 SpLine Beamline at the European Synchrotron ESRF Comisión Interministerial de Ciencia y Tecnología CICYT, Madrid, España y the European Synchrotron ESRF, Grenoble, France.
Jan. 1996 – Jul. 1996	Visiting professor at the department of Nanostructures, Surfaces, Coating and Molecular Astrophysics of the Material Science Institute, the Spanish National Research Council (CSIC), Madrid, Spain
May 1994 – Jan. 1996	Visiting professor at the Department of Physics of the Condensed Matter C-III, Universidad Autónoma de Madrid, Madrid, Spain.
Nov. 1988 – Apr. 1994	Research Associate at the Institute of Physical-chemistry of the University Kaiser Wilhelm Bonn, Bonn, Germany.
Sept. 1987 – Oct. 1988	Visiting professor at the Fritz Haber Institute of Max Planck Society, Berlin, Germany.
May 1986 – Oct. 1990	Research Associate (Associate Professor, full permanent position) at the Physics Department of Central University of Venezuela; Caracas, Venezuela.
Mar. 1984 – May 1986	Research Associate (Aggregate professor, full permanent position) at Physics Department of Central University of Venezuela; Caracas, Venezuela.
Mar. 1984 – May 1986	Research Associate (Aggregate professor, full permanent position) at the Physics Department of Central University of Venezuela; Caracas, Venezuela.
Sept. 1982 – Nov. 1988	Head of the Surface Science Group at the Physics Department of Central University of Venezuela; Caracas, Venezuela.
Sept. 1982 – Mar. 1984	Research Associate (Assistant professor, full permanent position) at the Physics Department of Central University of Venezuela; Caracas, Venezuela.

- Feb. 1978 – Jul. 1982 Research Associate at the Department of the Institute of Physical-chemistry of the Ludwig Maximillian University Munich, Munich Germany.
- Sept. 1977 – Mar. 1982 Research Associate (Instructor professor, full permanent position) at the Physics Departament of Central University of Venezuela; Caracas, Venezuela.
- Jan. 1976 – Sept. 1977 Research Associate (professor, full non-permanent position) at the Physics Departament of Central University of Venezuela; Caracas, Venezuela.
- Sept. 1973 – Dec. 1975 Teaching Assistant at the Physics Departament of the Central University of Venezuela; Caracas, Venezuela.

4. - Research Projects: Grants Support

- Jan. 2010 – Dec. 2014 Director of the project “*Explotación de la línea de Haz de Luz BM25-SpLine en la instalación Europea de Radiación Sincrotrón (ESRF)*” (Coordination and operation of the Spanish CRG BM25 SpLine beamline at the ESRF) supported by the Spanish National Research Council (CSIC) and the Spanish Ministry of Economy and Competitiveness under project Nr. 2010 6 OE 013. Award amount (annual rate): 2,216,014 €
- Jan. 2006 – Dec. 2009 Director of the project “*Gestión y funcionamiento de la línea de radiación SpLine en el ESRF*” (Gestion and opeartion of the radiation beamline SpLine at the ESRF) supported by the Spanish National Research Council (CSIC) and the Spanish Ministry of Economy and Competitiveness under project Nr. 2004 5 OE 292. Award amount (annual rate): 2,890,167 €
- Jan. 2006 – Dec. 2009 Director of the project “*Gestión y funcionamiento de la línea de radiación SpLine en el ESRF*” (Gestion and operation of the radiation beamline SpLine at the ESRF) supported by the Spanish National Research Council (CSIC) and the Spanish Ministry of Economy and Competitiveness under project Nr. 2004 5 OE 292. Award amount (annual rate): 2,890,167 €
- Jan. 2006 – Dec. 2011 Co-director of the project “*Diseño de nuevos materiales de baja dimensionalidad y geometría controlada*” (Design of low-dimensional materials with controlled geometry) supported by the Spanish Ministry of Science and Education under project Nr. MAT2006-01997. Award amount (annual rate): 630,000 €
- Jan. 2006 – Dec. 2011 Co-director of the project “*Factoria Española de Cristalización*” (Spanish crystallization factory) supported by the Spanish Ministry of Science and Education under project Nr. CSD2006-00015. Award amount (annual rate): 5,000,000 €
- Jan. 2006 – Dec. 2009 Director of the project “*Renovación Y Actualización de las estaciones de polvo y de materiales monocristalinos de la línea CRG-BM25 SpLine*” (Refurbishment and Upgrading of powder diffraction station of the Spanish CRG BM25 SpLine beamline) supported by the Spanish Ministry of Science and Technology under project Nr. ICTS-2007-02. Award amount (annual rate): 281,000 €
- Jan. 2006 – Dec. 2008 Director of the project “*Mejoras de las estaciones de Fotoemisión a muy altas energías, de difracción de polvo y de absorción de rayos X de la línea CRG-BM25 SpLine*” (Refurbishment of HAXPES and powder stations of the Spanish CRG BM25 SpLine beamline) supported by the Spanish Ministry of Science and Technology under project Nr. ICTS-2006-13. Award amount (annual rate): 849,400 €

- Jan. 2006 – Dec. 2008 Director of the project “*Operación de La línea de radiación SpLine en el ESRF*” (Operation of the Spanish CRG BM25 SpLine beamline at the ESRF) supported by the Spanish Ministry of Education and Science under project Nr. MAT2005-25519-E. Award amount (annual rate): 200,000 €
- Jan. 2006 – Dec. 2008 Director of the project “*Puesta a punto y operación de una línea española de experimentación SpLine en el ESRF*” (Commissioning and operation of the Spanish CRG BM25 SpLine beamline at the ESRF) supported by the Spanish Ministry of Science and Technology under project Nr. MAT2002-10806-E. Award amount (annual rate): 1,075,812 €
- Jan. 2001 – Dec. 2004 Director of the project “*Implementación de la técnica de Fotoemisión de rayos X a muy altas energías (10 KeV): Desarrollo de un nuevo analizador*” (Implementation of the high energy photoemission technique: design and development of a novel electrostatic electron analyzer) supported by the Spanish Ministry of Science and Technology under project Nr. FPA2001-2166. Award amount (annual rate): 663,517 €
- Jan. 2001 – Dec. 2004 Co-director of the project “*Construction of the Spanish CRG Beamline*” (Construction of the Spanish CRG beamline at the ESRF) supported by the Spanish Science and technology inter-ministerial Commission CICYT under project Nr. MAT199-0241-C07-01. Award amount (annual rate): 3,207,150 €
- Jan. 1998 – Dec. 2004 Co-director of the project “*Construction of the Spanish CRG Beamline*” (Construction of the Spanish CRG beamline at the ESRF) supported by the Spanish Science and technology inter-ministerial Commission CICYT under project Nr. MAT1997-1898-E. Award amount (annual rate): 581,178 €
- Jan. 1996 – Dec. 1998 Director of the project “*Spanish CRG Beamline Proposal*” (Construction of the Spanish CRG beamline at the ESRF) supported by the Spanish Science and technology inter-ministerial Commission CICYT under project Nr. MAT1998-1650-E. Award amount (annual rate): 728,066 €
- Jan. 1992 – Dec. 1993 Director of german part of German-Spain collaboration project “*Caracterización de las propiedades electrónicas y estructurales de siluros de metales de transición*” (Characterization of the electronic and structural properties of transition metal silicide) supported by Deutsche Akademischer Austauschdienst DAAD under project Nr. AZ:-322-AI-e-dr-.

5. - Other activities

- Member of Organizing committee of the “*Fourth Latin-American Symposium on Surface Science (SLAFS 4)*” held at the Universidad Central de Venezuela on the 14th of July 1986.
- Member of Organizing committee of the first workshop “*International Workshop on Hard X-ray Photoelectron Spectroscopy (HAXPES)*” held at the European Synchrotron ESRF, Grenoble, France on the 11th of September 2003.
- Member of Organizing committee of the workshop “*Hard X-ray Photoelectron Spectroscopy and Standing Waves: Status and Trends*” held at the European Synchrotron ESRF, Grenoble France on the 6th of February 2012.
- Chairman of Organizing committee of the first workshop “*BM25 - SpLine User's Meeting*” held at the Material Science Institute, the Spanish National Research Council (CSIC), Madrid, Spain on the 16th of April 2012.
- Referee:
 - Physical Review Letters
 - Applied Physics Letters
 - Chemical Physics Letters
 - Physical Review B
 - Physical chemistry
 - Physical Chemistry Chemical Physics
 - Langmuir
 - Surface Science
 - Applied Surface Science
 - Journal of Electron Spectroscopy and Related Phenomena
 - Journal of Vacuum Science and Technology
 - Agencia Nacional de Evaluación y Prospectiva (ANEP)
- Member of the American Physical Society APS
- Member of the American Vacuum Society AVS
- Member of the Deutschen Physikalischen Gesellschaft (German Physical Society) DPG
- Know-how transfer contract between the CRG BM25 SpLine beamline and the company ACCEL Instruments GmbH, Friedrich-Ebert-Straße 1;D-51429 Bergisch Gladbach Germany. (monochromator, safety-shutter, photon absorber, etc.)
- Cooperation and know-how transfer agreement between the CRG BM25 SpLine beamline and the company HUBE R Diffractionstechnik GmbH & Co. KG, Sommerstrasse 4;D-83253 Rimsting, Germany. (multi-crystal detector, detector arm, weight equilibrators, etc.)
- Cooperation agreement between the CRG BM25 SpLine beamline and the company FOCUS GmbH, Neukirchner Str. 2; 65510 Huenstetten; Germany. (electron analyzer, slits, etc.)

6. - Supervision of Diploma Thesis.

1. "Estudio del Sputtering Selectivo de un Monocristal de Hierro -Silicio FeSi(100) mediante la Espectroscopía Auger y el Uso de Projectiles de Ne⁺, Ar⁺ y Kr⁺".
Antonio Ballesteros Motin.
Universidad Central de Venezuela, Abril, 1984
2. "Uso de la Espectroscopía Auger para la Caracterización Superficial de Catalizadores Reales de base Cobre -Cromo para la Oxidación de Monóxido de Carbono".
Patricia Tacconi.
Universidad Central de Venezuela, Octubre, 1984
3. "Estudio de la Estructura Electrónica de la Superficie (100) del FeSi mediante el Uso de la Espectroscopía de Fotoemisión Ultravioleta".
Enrique Rodríguez Salazar.
Universidad Central de Venezuela, Marzo, 1985
4. "Estudio de la Estructura Electrónica Superficial del Cobalto Policristalino mediante el Uso de la Espectroscopía del Potencial de Aparición (A.P.S.)".
Juan Luís Cabrera.
Universidad Central de Venezuela, Octubre, 1985
5. "Recubrimiento Metálico de la Superficie Interna de Tubos de Grafito utilizados en Espectrofotometría de Absorción Atómica".
Johny Flores
Universidad Central de Venezuela, Octubre, 1985
6. "Interacción del Monóxido de Carbono con la Superficie de Cobalto Policristalino".
Luís Alfredo Espinoza.
Universidad Central de Venezuela, Noviembre, 1986
7. "Interacción de Oxígeno con la Superficie Ni(110)".
Fidel Fernández.
Universidad Central de Venezuela, Julio, 1987
8. "Digitalisierung und Anwendung eines Auger-Elektronen-Spektrometers zur Bestimmung von Elektronen-Energie-Verlust-Spektren von NiAl(110)"; ("Digitalización y aplicación de un espectrómetro para electrones Auger para la determinación de espectros de pérdidas de energía de los electrones")
Michael Stöcker
Universität Bonn, Julio, 1990
9. "Die Wechselwirkung von Xenon mit der NiAl(110)- und der Al(110)-Oberflächen"; ("Interacción de Xenón con las superficies NiAl(110) y Al(110)")
Ulrich Schneider
Universität Bonn, Febrero, 1990

10. "Linienformanalyse in der Elektronenspektroskopie und Anwendung auf das System K/Rh(111)" ("Análisis de la forma de línea en la espectroscopía electrónica y aplicación en el sistema K/Rh(111)")
Harald Busse.
Universität Bonn, Noviembre, 1991

11. "Estudio de la focalización vertical de un haz mediante espejos con incidencia rasante"
Oier Bikondoa de Barrio.
Universidad del País Vasco, Julio 1999

7. - Supervision of PhD Thesis.

1. "Aplicación del Método MINDO/SR a la Determinación de la Estructura Electrónica del Siluro de Hierro Monocristalino y a la Adsorción de Oxígeno sobre su Cara (100)".
Leonardo Rodríguez.
IVIC- Universidad Central de Venezuela, Febrero, 1987
2. "Estudio Teórico de las Propiedades Electrónicas de la Superficie (100) del CoSi y su Interacción con Oxígeno, Carbono y Monóxido de Carbono".
Germán Urbina.
Universidad Central de Venezuela, Abril, 1987
3. "Caracterización de la Superficie NiAl(110) y Estudio de su Interacción con Oxígeno, Monóxido de Carbono y Xenón"
Helena Isérrn Herrera.
Universidad Central de Venezuela, Mayo, 1990
4. "Investigación teórica de la interacción de H y CO sobre superficies de la aleación NiAl y estudio de los efectos dinámicos en la interacción carga-imagen mediante teoría de plasmones"
María Elena Grillo
Universidad Central de Venezuela, Julio, 1991
5. "Wechselwirkung von Wasserstoff mit der geordneten Cu₃Pt(111)-Oberfläche"; ("Interacción de hidrógeno con la superficie ordenada Cu₃Pt(111)")
Ralf Linke
Universität Bonn, Junio, 1993
6. "Die Wechselwirkung von Kohlenmonoxid mit der Cu₃Pt(111)-Legierungsoberfläche"; ("Interacción de monóxido de carbono con la superficie de la aleación Cu₃Pt(111)")
Ulrich Schneider
Universität Bonn, Marzo, 1994
7. "Structural properties of oxide thin films on alloys"
Oier Bikondoa de Barrio.
Universidad del País Vasco, Septiembre 2003
8. "Synchrotron X-ray Radiation applied to the study films: The case of La_{0.7}Ca_{0.3}MnO₃/SrTiO₃(001)"
Juan RUBIO ZUAZO
Universidad Autónoma de Madrid, 18 de Mayo 2005

8.- Academic activities

SS= Summer semestre and/or 2nd semester of academic year

WS= Winter semestre and/or 1st semester of academic year

SS1976 - WS1976/77	<i>“Physics Lab practical II”</i> Physics degree course - Physics Department Universidad Central de Venezuela Caracas; Venezuela
SS1977	<i>“Electricity and Magnetism”</i> Physics degree course - Physics Department Universidad Central de Venezuela Caracas; Venezuela
WS1982/83	<i>“Physics Lab practical II”</i> Physics degree course - Physics Department Universidad Central de Venezuela Caracas; Venezuela
SS1983	<i>“Photoemission and electronic surface states on clean surfaces”</i> Physics postgraduate course - Physics Department Universidad Central de Venezuela Caracas; Venezuela
WS1983/84	<i>“Solid state Physics”</i> Physics postgraduate course - Physics Department Universidad Central de Venezuela Caracas; Venezuela
WS1984/85 - SS1985	<i>“Solid state Physics”</i> Physics degree course - Physics Department Universidad Central de Venezuela Caracas; Venezuela
SS1984 - WS1984/85 SS1985	<i>“Photoemission and electronic surface states on clean surfaces”</i> Physics postgraduate course - Physics Department Universidad Central de Venezuela Caracas; Venezuela
WS 1985/86	<i>“Solid state Physics”</i> Physics postgraduate course - Physics Department Universidad Central de Venezuela Caracas; Venezuela
WS1990/91 - SS1991 WS1991/92 - SS1992 WS1992/93 - SS1993 WS1993/94	<i>“Thermal desroptions spectroscopy practical TDS”</i> Physical chemistry course – Institute of Physical-chemistry University Kaiser Wilhem Bonn Bonn, Germany

- WS1990/91 - SS1991 *“Electron spectroscopy techniques for Surface science”*
 WS1991/92 - SS1992 Physical chemistry course – Institute of Physical-chemistry
 WS1992/93 - SS1993 University Kaiser Wilhem Bonn
 WS1993/94 Bonn, Germany
- WS1990/91 - SS1991 *“Introduction to the independent research work in Surface*
 WS1991/92 - SS1992 *sciences”*
 WS1992/93 - SS1993 Physical chemistry course – Institute of Physical-chemistry
 WS1993/94 University Kaiser Wilhem Bonn
 Bonn, Germany
- SS1995 *“Electron spectroscopy techniques for Surface science and*
 application to model systems”
 Physics postgraduate course – The Faculty of Sciences
 Universidad Autonoma de Madrid
 Madrid; Spain
- SS2002 *“Synchrotron X-ray optics”*
 Physics postgraduate course – The Faculty of Sciences
 Universidad Autonoma de Madrid
 Madrid; Spain
- SS2002 *“X-ray detectors”*
 Physics postgraduate course – The Faculty of Sciences
 Universidad Autonoma de Madrid
 Madrid; Spain
- SS2002 *“SpLine: the Spanish CRG beamline for material science at the*
 ESRF; experimental capabilities and temporal scale”
 Physics postgraduate course – The Faculty of Sciences
 Universidad Autonoma de Madrid
 Madrid; Spain
- WS2006 *“Synchrotron Radiation: an exceptional tool for the study*
 electronic and structural properties of solid matter”
 Physics postgraduate course - Physics Department
 Universidad Central de Venezuela
 Caracas; Venezuela
- WS2008/09 - SS2009 *“Crystallography at Large Research Infrastructures”*
 WS2009/10 - SS2010 Master’s degree in crystallography and crystallization
 WS2010/11 - SS2011 Universidad Internacional Menéndez Pelayo
 Madrid; Spain
- WS2009/10 - SS2010 *“PRACTICALS AND TUTORIALS Crystallography at Large*
 WS2010/11 - SS2011 *Research Infrastructures”*
 WS2011/12 - SS2012 Master’s degree in crystallography and crystallization
 WS2012/13 - SS2013 Universidad Internacional Menéndez Pelayo
 Madrid; Spain

WS2007/08 - SS2008	<i>“Synchrotron X-ray optics: SpLine CRG beamline”</i>
WS2008/09 - SS2009	Màster de sincrotró I acceleradors de partícules
WS2009/10 - SS2010	Universidad Autonoma de Barcelona
WS2010/11 - SS2011	Barcelona; Spain
WS2008 – WS2009	<i>“PRACTICALS AND TUTORIALS X-ray Absorption spectroscopy</i>
WS2010 - WS2011	<i>EXAFS/XANES”</i>
WS2012 - WS2013	Higher European Research Course for Users of Large Experimental
WS2014	Systems HERCULES
	CNRS (Centre national de la recherche scientifique) and Université
	Joseph Fourier.
	Grenoble; Francia
WS2008 – WS2009	<i>“PRACTICALS AND TUTORIALS Surface X-ray Diffraction</i>
WS2010 - WS2011	<i>SXD”</i>
WS2012 - WS2013	Higher European Research Course for Users of Large Experimental
WS2014	Systems HERCULES
	CNRS (Centre national de la recherche scientifique) and Université
	Joseph Fourier.
	Grenoble; Francia

9.-Publications

9.1.- Books, monographies and book contributions

1. Cardona, Manuel y Castro, Germán Rafael. "LECTURES IN SURFACE SCIENCE".
SPRINGER-VERLAG.
Berlin, Heidelberg, Alemania /1987 .
2. Castro, Germán Rafael.
"Espectroscopía del Potencial Aparente (A.P.S.) para el Estudio de la Estructura Electrónica de Superficies".
Departamento de Física, Universidad Central de Venezuela.
Caracas/1976.
3. Castro, Germán Rafael
"Charakterisierung und Oxidation von Kobalt-Silicid Oberflächen".
Ludwig-Maximilian Universität.
Munich, Alemania /1982.
4. Castro, Germán Rafael.
"Interacción de Oxígeno con la Superficie hcp(0001) de Cobalto Recristalizado".
Departamento de Física, Universidad Central de Venezuela.
Caracas/1983.
5. Castro, Germán Rafael.
"Estructura Electrónica Superficial del CoSi(100) y CoSi₂(100)".
Departamento de Física, Universidad Central de Venezuela.
Caracas/1984.
6. Castro, Germán Rafael.
"Caracterización de Muestras de Acero Estañado (SIDOR) mediante el Uso de la Espectroscopía Auger". Informe No. 8401.
Departamento de Física, Universidad Central de Venezuela.
Caracas/1984.
7. Castro, Germán Rafael.
"Interacción de Oxígeno y Monóxido de Carbono con las Superficies Fe(Poli) y FeSi(100)".
Departamento de Física, Universidad Central de Venezuela.
Caracas/1986.
8. Castro, Germán Rafael.
"Spanish X-Ray Beamline for Absorption and Diffraction - Spanish CRG ".
Comisión Interministerial de Ciencia y Tecnología CICYT, Madrid, Spain
Grenoble/1997.

9.2.-Papers

1. **Castro, G.R.**; Hulse J.E.; Küppers, J.; Rodríguez González-Elipe, A.
"Oxygen interaction with CoSi(100) and CoSi₂(100) surfaces"
Surface Science, **117** (1982) 621-628
2. **Castro, G.R.**; Küppers J.
"Interaction of oxygen with hcp(0001) recrystallized cobalt surfaces"
Surface Science, **123** (1983) 456-470
3. **Castro, G.R.**; Küppers J. Ivaschenko, Y.
"Sputtering of CoSi(100) and CoSi₂(100) single crystal surfaces"
Applications on Surface Science, **16** (1983) 453-462
4. Ruetter, F.; Ludeña, E.V.; Hernández A. **Castro, G.R.**
"Theoretical explanation of the observed shift in density of states upon hydrogen chemisorption on nickel"
Surface Science, **167** (1986) 393-400
5. Goldwasser, J.; Arenas, B.; Bolívar, C.; **Castro G.R.**; Rodríguez, A.; Fleitas, A.; Girón, J.
"A study of the platinum-germanium catalytic system"
Journal of Catalysis, **100** (1986) 75-85
6. Benzo, Z.A.; **Castro, G.R.**; Carrión, N.; Flores, J.
"Preliminary study on the recuperation of exhausted graphite tubes for the analysis of Cu and Cr by ETAAAS"
Mikrochimica Acta, **I** (1986) 311-324
7. **Castro, G.R.**; Hulse, J.E.; Küppers, J.
"Metal atom catalyzed oxidation of silicon"
Applications on Surface Science, **27** (1986) 262-274
8. **Castro, G.R.**; Severino F.; Brito, J.L.; Laine, J.
"Efectos del pretratamiento con CO del promotor en catalizadores no soportados de cobre y cromo"
Proc. X Simp.Iberam. de Catálisis, **1** (1986) 247-256
9. Severino, F.; Brito, J.L.; Laine, J.; **Castro, G.R.**
"Estudios por espectroscopía Auger de catalizadores soportados para hidrodesulfuración"
Proc. X Simp.Iberam.de Catálisis, **2** (1986) 1161-1162
10. Laine, J.; Albornoz, A.; Brito, J.L.; Carias,O.; **Castro, G.R.**; Severino, F.; Valera, D.
"Development of a copper chromite catalyst for carbon monoxide automobile emission control"
Studies in Surface Science and Catalysis, **30** (1987) 387-393
11. Ballesteros, A.; Rojas, C.; **Castro, G.R.**
"Quantitative Auger analysis of FeSi(100) using noble gas ion sputtering"
Lectures on Surface Science. Eds. Cardona, M. and Castro, G.R. (Springer, Berlin, 1987)
p.324-328

12. Brito, J.; **Castro, G.R.**; Severino, F.; Laine, J.
"AES study of Hhydrodesulfurization catalysts"
Lectures on Surface Science. Eds. Cardona, M. and Castro, G.R. (Springer, Berlin, 1987)
p.290-293
13. Rodríguez, L.; Ruette, F.; Ludeña, E.; **Castro, G.R.**
"Theoretical study of the electronic structure of FeSi"
Lectures on Surface Science. Eds. Cardona, M. and Castro, G.R. (Springer, Berlin, 1987)
p.140-143
14. **Castro, G.R.**; Tacconi, P.; Yunes, S.; Severino, F.; Laine, J.
"XPS and AES characterization of CuCr oxide catalysts"
Lectures on Surface Science. Eds. Cardona, M. and Castro, G.R. (Springer, Berlin, 1987)
p.287-289
15. Rodríguez, L.J.; Ruette, F.; Ludeña, E.; **Castro, G.R.**; Hernandez, A.
"Theoretical study of the oxygen atom interaction with a FeSi(100) surface"
Lectures on Surface Science. Eds. Cardona, M. and Castro, G.R. (Springer, Berlin, 1987)
p.132-135
16. **Castro, G.R.**; Ballesteros A.
"Preferential sputtering of FeSi(100) single crystal by argon, neon and krypton ion bombardment"
Surface Science, **204** (1988) 415-427
17. Pervan, P.; Michel, E.; **Castro, G.R.**; Miranda, R.; Wandelt, K.
"Properties of potassium adsorbed on Si(100)2x1"
J. Vac. Sci. and Tech. **A(7)** (1988) 1885-1888
18. Laine, J.; Ceballos, G.; Severino, F.; **Castro G.R.**
"Preparation and characterization of a plate-suported Raney copper catalyst"
Ind. Eng. Chem. Research, **28** (1989) 146-149
19. Isern, H.; **Castro, G.R.**
"The initial interaction of oxygen with a NiAl(110) single crystal: A LEED and AES study"
Surface Science **211/212** (1989) 865-871
20. Laine, J.; Ceballos, G.; Severino, F.; **Castro, G.R.**; Tacconi, P.; Yunes, S.; Cruz, J.
"Surface copper enrichment by reduction of copper-chromite catalysts employed for carbon monoxide oxidation"
Catalysis Letters, **5** (1990) 45-54
21. Rodríguez, L.J.; Ruette, F., **Castro, G.R.**; Ludeña, E.
"Semiempirical study of electronic and bonding properties of iron silicide clusters"
Theor. Chem. Acta, **77** (1990) 39-56
22. **Castro, G.R.**; Conrad, H.; Doyen ,G.; Grillo, M.E.; Hemmen, R.; Isern, H.
"Combined experimental and theoretical study of CO on NiAl(110)"
Vacuum **41** (1990) 731-732

23. **Castro, G.R.**; Isern, H.; Schneider, U.; Stöcker, M.; Wandelt, K.
"Xenon adsorption on NiAl(110)"
Vacuum **41** (1990) 393-395
24. **Castro, G.R.**; Pervan, P.; Michel E.G.; Miranda, R.; Wandelt, K.
"Interaction of potassium with Si(100)2x1"
Vacuum **41** (1990) 564-566
25. **Castro, G.R.**; Pervan, P.; Michel, E.G.; Miranda, R.; Wandelt, K.
"Local versus non-local character of the alkali-promoted oxidation of silicon"
Vacuum **41** (1990) 787-789
26. **Castro, G.R.**; Isern, H.; Schneider, U.; Stöcker, M.; Wandelt, K.
"Two dimensional phase transition of adsorbed xenon on NiAl(110) and Al(110)"
Journal of Vacuum. Science. and Technology **A9(3)** (1991) 1676-1679
27. Mondio, G.; Neri, F.; Stöcker, M.; Janssens, T.; **Castro, G.R.**; Wandelt, K.
"Surface chemical sensitivity of Reflection Electron Energy Loss Spectra from metal surfaces"
Surface Science **251/252** (1991) 243-247
28. Schneider, U.; **Castro, G.R.**; Isern, H.; Janssens, T.; Wandelt, K.
"Xenon adsorption on Al(110)"
Surface Science **251/252** (1991) 551-555
29. Laine, J.; Ceballos, G.; Severino, F.; **Castro, G.R.**; Rojas, C.
"Structure and activity of a Raney copper film catalyst"
Catalysis Letters **10** (1991) 11-18
30. Michel, E.G.; Pervan, P.; **Castro, G.R.**; Miranda, R; Wandelt, K.
"Structural and electronic properties of K/Si(100)2x1"
Physical Review **B45** (1992) 11811-11822
31. **Castro, G.R.**; Dürr, H; Fischer, R.; Fauster, Th.
"Unoccupied electronic bandstructure of NiAl(110)"
Physical Review **B45** (1992) 11989-11992
32. **Castro, G.R.**; Busse, H.; Schneider, U.; Janssens, T.; Wandelt, K.
"Geometric and electronic structure of Potassium adsorbed on Rh(111)"
Physica Scripta **T41** (1992) 208-212
33. Janssens, T.; **Castro, G.R.**; Busse, H.; Schneider, U.; Wandelt, K.
"Local effects in the interaction of potassium with Rh(111)"
Surface Science **269/270** (1992) 664-668
34. Schneider, U.; **Castro, G.R.**; Busse, H.; Janssens, T.; Wesemann, J.; Wandelt, K.
"Xe adsorption on the Cu₃Pt(111) surface"
Surface Science **269/270** (1992) 316-320

35. **Castro, G.R.**; Schneider, U.; Busse, H.; Janssens, T.; Wandelt, K.
"The interaction of CO with the Cu₃Pt(111) surface"
Surface Science **269/270** (1992) 321-325
36. Grillo, M.E.; **Castro, G.R.**; Doyen, G.
"Image Effects in the direct and inverse photoemission spectra of CO adsorbed on NiAl(110)"
Journal of Physics: Condens. Matter **4** (1992) 5103-5124
37. Alvarez, J.; Hinajeros, J.J.; Michel, E.G.; **Castro, G.R.**; Miranda, R.
"Electronic structure of iron silicides grown on Si(100) determined by photoelectron spectroscopies"
Physical Review **B45** (1992) 14042-14051
38. Busse, H.; Janssens, T., **Castro, G.R.**; Wandelt K.
"Surface structure of the K/Rh(111) system"
Accademia Peloritana del Pericolanti report (1992) 1-14
39. Grillo, M.E.; **Castro, G.R.**; Doyen, G.
"Theory of carbon monoxide adsorption on NiAl(110)"
Journal of Chemical Physics **97** (1992) 7786-7796
40. Urbina-Villalba, G.; Rodríguez, L.J.; **Castro, G.R.**; Ruetter, F.
"Semiempirical study of electronic and bonding properties of cobalt silicide clusters"
Journal of Computational Chemistry, **13** (1992) 867-873
41. Alvarez, J.; Hinajeros, J.; Michel, E.G.; Jeong, K.H.; Buslaps, T.; Johnson, R.; Busse, H.; **Castro, G.R.**
"Electronic structure of CoSi₂(100)"
HasyLab Jahresbericht 1992, p.187-188
42. Ortega, J.E.; Chrost, J.; Alvarez, J.; Michel, E.G.; Buslaps, T.; Johnson, R.; **Castro, G.R.**
"Electronic structure of CoAl"
HasyLab Jahresbericht 1993, p. 233-235
43. Schneider, U.; **Castro, G.R.**; Busse, H.; Wandelt, K.
"Adsorption on ordered Cu₃Pt(111): Site selectivity"
Surface Science, **287/288** (1993) 146-152
44. **Castro, G.R.**; Doyen G.
"Electronical and Structural effects in CO Chemisorption on Cu₃Pt(111)"
Surface Science, **307-309** (1994) 384-389
45. Linke, R.; Schneider, U.; Busse, H.; Becker, C.; Schröder, U.; **Castro, G.R.**; Wandelt, K.
"Interaction of Hydrogen with Cu₃Pt(111): Dissociation via isolate Platinum atoms"
Surface Science, **307-309** (1994) 407-411
46. Becker, C.; Schröder, U.; **Castro, G.R.**; Schneider, U. Busse, H.; Linke, R.; Wandelt, K.
"Lateral interaction of H and CO coadsorbed on Cu₃Pt(111)"
Surface Science, **307-309** (1994).412-415

47. Schneider, U.; Busse, H.; Linke, R.; **Castro, G.R.**; Wandelt, K.
"Interaction Properties of Molecules with Binary Alloy Surfaces"
Journal of Vacuum Science and Technology **A12** (1994) 2069-
48. Janssens, T.V.W., **Castro, G.R.**; Wandelt, K.; Niemantsverdriet, J.W.
"Surface potential around potassium promoter atoms on Rh(111) measured with photoemission of adsorbed Xe, Kr. and Ar"
Physical Review **B49** (1994) 14599-14609
49. Busse, H.; Wandelt, K.; **Castro, G.R.**
"Methods and Applications for the Deconvolution of (Auger) Electron Spectroscopy Data"
Journal of Electron Spectroscopy and Related Phenomena **72** (1995) 311-316
50. Busse, H.; Eltester, J.; Kandler, J.; **Castro, G.R.**; Wandelt, K.
"CO Adsorption on an Ordered Fe₃Si(100) Single Crystal Surface"
Surface Science **331-333** (1995) 685-690
51. Beutl, M. Rendulic, K.D.; **G.R. Castro**
"Adsorption Dynamics for CO and H₂ on NiAl(110) Surface"
J. Chem. Soc. Faraday Trans. **91** (1995) 3639-3643
52. Lopez de Mishima, B.A.; Mishima, H.T., **Castro, G.R.**
"Surface Studies of Pt-Ru Electrodeposits on Gold "
Electrochimica Acta **40** (1995) 2491-2500
53. Kandler, J.; Eltester, B.; Busse, H.; **Castro, G.R.**; Wandelt, K.
"Interaction of CO with the ordered Ni₃Al(111) surface"
Surface Science **331-333** (1995) 18-22
54. **Castro, G.R.**; Doyen G.
"A comparative theoretical study of atomic hydrogen adsorption on the (110) faces of Al, Cu, Ni, and NiAl "
Journal of Chemical Physics **105** (1996) 9640-9648
55. Segovia, P. ; **Castro, G.R.**; Mascaraque, A.; Prieto, P.; Kim, H.J.; Michel E.G.
"Origen of the surface metallization in single-domain K/Si(100)2x1"
Physical Review **B54** (1996) R14277-14280
56. Wei↓, W.; Starke; U., Heinz, K.; Rangelov, G.; Fauster, Th.; **Castro, G.R.**
"LEED structure determination of the (100)-surface of a CoSi₂ crystal and a CoSi₂ film grown epitaxially on Si(100)"
Surface Science **347** (1996) 117-127
57. Starke; U.; Wei↓, W.; Heinz, K.; Rangelov, G.; Fauster, Th.; **Castro, G.R.**
"CoSi₂ on Si(100): LEED investigations of the $c(2 \times 2)$ and $2\sqrt{2} \times \sqrt{2}$ phases and comparison to a bulk crystal of CoSi₂(100)"
Surface Science **352-354** (1996) 89

58. Blum, V.; Rath, C.; **Castro, G.R.**; Kottcke, M.; Hammer, L.; Heinz, K.
"Ordered and disordered Rippling in the CoAl(110)-1x1 surface"
Surface Rev and Lett. **3** (1996) 1409- 1415
59. Segovia, P. ; **Castro, G.R.**; Mascaraque, A.; Michel E.G.
"Metalization onset in K/Si(100)2x1"
Surface Science **377-379** (1997) 220-224
60. **Castro, G.R.**; Alvarez, J.; Dávila, M.E.; Asensio, M.C.; Michel E.G.
"Electronic band structure of ϵ -FeSi(100)"
Journal of Physics: Condensed Matter **9** (1997) 1-6
61. Hinarejos, J.J.; **Castro, G.R.**; Segovia, P.; Alvarez, J.; Michel E.G.; Miranda, R.;
Rodríguez-Marco, A.; Sánchez-Portal, D.; Artacho, E. Ynduráin, Yang, S.H., Ordejón, P.
Adams, J.B.
"Surface electronic structure of metastable FeSi(CsCl)(111) epitaxially grown on Si(111)"
Physical Review **B55** (1997) R16065-16068
62. Buse, H.; Kandler, J.; Elstester, B.; Wandelt, K.; **Castro, G.R.**; Hinarejos, J.J.; Segovia, P.;
Chrost, J.; Michel E.G.; Miranda, R.
"Metastable iron silicide phase stabilized by surface segregation on Fe₃Si(100)"
Surface Science **381** (1997) 133-141
63. Beutl, M.; Rendulic, K.D.; **Castro, G.R.**
"Does the rotational state of a molecule influence trapping in a precursor? An investigation
of N₂/W(100), CO/FeSi(100) and O₂/Ni(111)"
Surface Science **385** (1997) 97-106
64. Hinarejos, J.J.; Segovia, P.; Alvarez, J.; **Castro, G.R.**; Michel E.G.; Miranda, R.
"Electronic band structure of epitaxial $\sqrt{3}x\sqrt{3}R30^0 \epsilon - FeSi(111) / Si(111)$ "
Physical Review **B57** (1998) 1414-1417
65. Janssens, T.V.W.; **Castro, G.R.**; Wandelt, K.
Heterogeneity of Oxygen-Potassium-Covered Rh(111): Detection with Photoemission of
Adsorbed Noble Gases"
Surface Science **399** (1998) 15-28
66. **Castro, G.R.**
"Optical design of the general-purpose Spanish X-ray beamline for absorption and
diffraction"
J. Synchrotron Rad. **5** (1998) 657-660
67. Mayer, D.; Willerding , B.; Wandelt, K.; **Castro, G.R.**; Braum, J.
"Relativistic calculations of photoemission spectra from CoAl(110)"
Journal of Physics: Condensed Matter **10** (1998) 10839-10852
68. Torrelles, X.; Wendler, F.; Bikondoa, O.; Isern, H.; Moritz, W.; **Castro, G.R.**
"Structure of the clean NiAl(110) surface and the Al₂O₃/NiAl(110) interface by
measurements of crystal truncation rods"
Surface Science **487** (2001) 97-106

69. Reedijk, M. F.; Arsic, J.; Kaminski, D.; Poodt, P.; Knops, H.; Serrano, P.; **Castro, G.R.**; Vlieg, E.
“Melting behavior of β -Pb/Ge(111) structure”
Physical Review **B67** (2003) 165423
<http://dx.doi.org/10.1103/PhysRevB.67.165423>
70. De Andrés, A.; Rubio, J.; **Castro, G.R.**; Taboada, S.; Martínez, J.L.; Colino, J.M.
“Structural and magnetic properties of ultra thin epitaxial La_{0.7}Ca_{0.3}MnO₃ manganite films: Strain versus finite size effects”
Applied Physics Letters **83** (2003) 713-715
<http://dx.doi.org/10.1063/1.1594838>
71. J. Rubio-Zuazo, A. de Andrés, S. Taboada, C. Prieto, J. L. Martínez; **G.R. Castro**
“Correlation between atomic structure and magnetic properties of La_{0.7}Ca_{0.3}MnO₃ thin films grown on SrTiO₃ (100)”
Physica B: Physics of Condensed Matter **B357** (2005) 159-164
<http://dx.doi.org/10.1016/j.physb.2004.11.048>
72. J. Rubio-Zuazo; **G.R. Castro**
“Hard X-ray photoelectron spectroscopy (HAXPES) (≤ 15 keV) at SpLine, the Spanish CRG beamline at the ESRF”
Nuclear Instruments and Methods in Physics Research **A547** (2005) 64-72
<http://dx.doi.org/10.1016/j.nima.2005.05.013>
73. O. Bikondoa, X. Torrelles, F. Wendler, W. Moritz; **G.R. Castro**
“Surface induced disorder on the clean Ni₃Al(111) surface”
Physical Review **B72** (2005) 195430 (1-8pp)
<http://dx.doi.org/10.1103/PhysRevB.72.195430>
74. J. Rubio-Zuazo; **G.R. Castro**
“Hard X-Ray Photoelectron Spectroscopy and X-Ray Surface Diffraction station”.
Pico, Vol 10. No2 (2006)
75. M. A. García, J. M. Merino, E. Fernández Pinel, A. Quesada, J. de la Venta, M. L. Ruíz González, **G.R. Castro**, P. Crespo, J. Llopis, J. M. González-Calbet, A. Hernando.
“Magnetic Properties of ZnO Nanoparticles”
Nano Letters **7(6)** (2007) 1489-1494.
<http://dx.doi.org/10.1021/nl070198m>
76. M.Sánchez del Rio, A.Gutiérrez-León, **G.R. Castro**, J. Rubio-Zuazo, C. Solís, R. Sánchez-Hernández, J. Robles-Camacho; J. Royas-Gaytán.
“Synchrotron powder diffraction on aztec blue pigments”
Applied Physics **A90(1)** (2008) 55-60
<http://dx.doi.org/10.1007/s00339-007-4264-6>
77. J. Rubio-Zuazo; **G.R. Castro**
“Probing buried interfaces by simultaneous combination of X-Ray diffraction (SXR) and Hard X-Ray Photoelectron Spectroscopy (HAXPES, up to 15KeV)”
Reviews on Advanced Materials Science **15** (2007) 79-86.

78. J. Rubio-Zuazo, E. Martinez, P. Batude, L. Clavelier, F. Soria, A. Chabli and **G.R. Castro**
 “Hard X-ray photoemission experiments on novel Ge-based metal gate / high-k stacks”
 AIP Conference Proceedings-2007 International Conference on Frontiers of Characterization
 and Metrology for Nanoelectronics. NIST. Gaithersburg, MD
 AIP Conf. Proc. 931, 329 (2007);
<http://dx.doi.org/10.1063/1.2799393>
79. Jiménez-Villacorta, F.; Céspedes, E.; Vila, M.; Muoz-Martín, A.; **Castro, G.R.**; Prieto, C.
 “Microstructural properties and local order around iron in granular metal-insulator Fe/Si₃N₄
 systems prepared by magnetron sputtering”
 Journal of Physics D - Applied Physics **41** (2008) 205009 (1-8pp)
<http://dx.doi.org/10.1088/0022-3727/41/20/205009>
80. A. Faik, J.M. Igartua, G.J. Cuello, F. Jiménez-Villacorta, **G.R. Castro** and L. Lezama
 "Crystal structures and temperature-induced phase transitions of Sr₂Mn²⁺W⁶⁺O₆, and of its
 transformation to Sr₂Mn³⁺W⁶⁺O_{6+δ}"
 Journal of Molecular Structure **933**, 53 (2009)
<http://dx.doi.org/10.1016/j.molstruc.2009.06.008>
81. A. Pereira, C. Olalla, J. Sanchez-Sanz, and **G.R. Castro**
 “Control y adquisición de datos de la línea española del sincrotrón de Grenoble”
 Técnica industrial 5 (2005)
82. M. Escher, M. Merkel, J. Rubio-Zuazo, and **G.R. Castro**
 “An energy analyser for Hard X-ray Photoelectron Spectroscopy”
 Proceedings of Recent Trends in Charged Particle Optics and Surface Physics
 instrumentation, Brno, Czech Republic, 2006
83. A. Gutiérrez-León, J. Rubio-Zuazo and **G.R. Castro**
 “Línea española SpLine de radiación sincrotrón. Posibles aplicaciones en arqueometría”
 Actas del VII Congreso Ibérico de Arqueometría (CSIC), Editores: Salvador Rovira Llorens;
 Manuel García-Heras; Marc Gener Moret, Ignacio Montero Ruiz1; Madrid page 9-27, 2008
84. A. Martinez, J.J. Romero, **G.R. Castro**, A. Fyang, V. Harris, J.C. Woicik, A.Hernando, P.
 Crespo –
 “EXAFS studies and magnetic behaviour of FeCuZr ball-milled alloys”
 IEEE Transactions on Magnetics **44** (11) 3887 (2008)
85. J. Rubio-Zuazo and **G.R. Castro**
 “Information depth determination for Hard X-ray Photoelectron Spectroscopy up to 15 KeV
 photoelectron kinetic energy”
 Surface and Interface Analysis **40** (2008) 1438-1443
<http://dx.doi.org/10.1002/sia.2920>
86. A. Fernández-Martínez, D. Martínez-Blanco, M.J. Pérez, G.J. Cuello, **G.R. Castro**, P.
 Gorria, J.A. Blanco
 “Structural and magnetic study of mechanically alloyed Fe₃₀Cr₇₀ by neutron thermo-
 diffractometry and magnetization measurements”
 Journal of Non-Crystalline Solids **354** (2008) 5156-5158
<http://dx.doi.org/10.1016/j.jnoncrysol.2008.06.114>

87. Víctor López-Flores, Manuel A. Roldán, Concepción Real, Adela Muñoz Páez, and **Germán R. Castro**
 “Polymorphic transformation from body-centered to face-centered cubic vanadium metal during mechanosynthesis of nanostructured vanadium nitride determined by extended x-ray absorption fine structure spectroscopy”
 Journal of applied physics **104** (2008) 023519 (1-9pp)
<http://dx.doi.org/10.1063/1.2958324>
88. Miguel A. Salvadó, Pilar Pertierra, **Germán R. Castro**, Camino Trobajo, José R. García
 “Synthesis and crystal structure of thorium bis(hydrogenphosphate) monohydrate”
 Inorganic Chemistry **47**, 1246 (2008)
<http://dx.doi.org/10.1021/ic9013812>
89. F. Jiménez-Villacorta, E. Céspedes, M. Vila, A. Muñoz-Martín, **G.R. Castro** and C. Prieto
 “Local order and electronic structure at the interface in metal-insulator Fe/Si₃N₄ multilayers”
 Journal of Physics D: Applied Physics. **41** (2008) 205009 (1-8pp)
<http://dx.doi.org/10.1088/0022-3727/41/20/205009>
90. Rubio-Zuazo and **G.R. Castro**
 “Hard X-Ray Photoelectron Spectroscopy up to 15keV: A novel tool for non-destructive characterization of bulk and buried interfaces”
 Proceedings of 14th International conference on Thin Films & Reactive Sputter Deposition Ghent, Belgium,
 Proceedings of ICTF14&RSD2008 Eds.:R. De Gryse, D. Depla, D. Poelman, S. Mahieu, W.P. Leroy and H. Poelman ISBN 978 90 334 7347 0 (2008) 154-157
91. J. Rubio-Zuazo, M. Escher, M. Merkel, **G.R. Castro**
 “A novel electrostatic electron analyzer for Hard X-ray Photoelectron Spectroscopy (up to 15keV)”
 Journal of Physics: Conferences Series **100** (2008) 072032 (1-4pp)
<http://dx.doi.org/10.1088/1742-6596/100/7/072032>
92. J. Rubio-Zuazo, and **G.R. Castro**
 “Non-destructive compositional depth profile analysis by Hard X-ray Photoelectron Spectroscopy”
 Journal of Physics: Conferences Series **100** (2008) 012042 (1-4pp)
<http://dx.doi.org/10.1088/1742-6596/100/1/012042>
93. E. Céspedes, **G.R. Castro**, F. Jiménez-Villacorta, A. de Andrés and C. Prieto
 “Mn local order in room temperature ferromagnetic Mn/ZnO multilayers”
 Journal of Physics: Condensed Matter **20** (2008) 095207 (1-9pp)
<http://dx.doi.org/10.1088/0953-8984/20/9/095207>
94. J. Rubio-Zuazo and **G.R. Castro**
 “SpLine: Spanish BM25 CRG X-Ray beamline at the European Synchrotron Radiation Facility”
 Seminarios de la Sociedad Española de Mineralogía, Volumen 6. Synchrotron Radiation in Mineralogy. Page 89, ISSN: 1698-5478. (2009)

95. F. Jiménez-Villacorta, C. Prieto and **G.R. Castro**
“X-ray absorption spectroscopy study of granular Fe/Si₃N₄ systems”
Journal of Physics: Conference Series **190**, (2009) 012115 1-6
<http://dx.doi.org/10.1088/1742-6596/190/1/012115>
96. A.I. Orlova, V.Yu. Volgutov, **G.R. Castro**, S. García-Granda, S.A. Khainakov and J.R. García
“Synthesis and Crystal Structure of NZP-Type Thorium-Zirconium Phosphate”
Inorganic Chemistry **48(19)** (2009) 9046–9047
<http://dx.doi.org/10.1021/ic9013812>
97. Pedro Gorria, Roberto Boada, Alejandro Fernández-Martínez, Gastón Garbarino, Ronald I. Smith, Jesús Chaboy, J. I. García Alonso, David Martínez-Blanco, **German R. Castro**, Mohamed Mezouar, Antonio Hernando, and Jesús A. Blanco
“Stress-induced Curie temperature increase in the Fe₆₄Ni₃₆ invar alloy”
Physica status solidi (RRL)- Rapid Research Letters **3** (2009) 115-117
<http://dx.doi.org/10.1002/pssr.200903056>
98. G. Gonzalez, M.E. Gomes, G. Vitale, **G.R. Castro**
“Effect of Al content on phase transitions of zeolite MEL, Microporous and Mesoporous Materials”
Microporous and Mesoporous Materials **121** (2009) 26-33
<http://dx.doi.org/10.1016/j.micromeso.2008.12.027>
99. L.K. Herrera, A. Durán, M.L. Franquelo, A.R. González-Elipse, J.P. Espinós, J. Rubio-Zuazo, **G.R. Castro**, A. Justo and J.L. Pérez-Rodríguez
“Study by Grazing Incident Diffraction and Surface Spectroscopy of Amalgams from Ancient Mirrors”
Central European Journal of Chemistry **7** (2009) 47-53
<http://dx.doi.org/10.2478/s11532-008-0089-1>
100. A. Faik, J.M. Igartua, G.J. Cuello, F. Jiménez-Villacorta, **G.R. Castro** and L. Lezama
“Crystal structures and temperature-induced phase transitions of Sr₂Mn²⁺W⁶⁺O₆, and of its transformation to Sr₂Mn³⁺W⁶⁺O_{6+δ}”
J. Mol. Struct. **933** (2009) 53-62
<http://dx.doi.org/10.1016/j.molstruc.2009.06.008>
101. A. Gutiérrez-León, J. Rubio-Zuazo, S. Petrick Casagrande and **G.R. Castro**
“Análisis no destructivos sobre cerámicas arqueológicas. Fluorescencia (EDX) y difracción de polvo de rayos X (XRD) con ángulo de incidencia rasante y radiación sincrotrón”
Actas del VIII Congreso Ibérico de Arqueometría, Teruel 2009 (In press).
102. J. Garcia-Barriocanal, F.Y. Bruno, A. Rivera-Calzada, Z. Sefrioui, N.M. Nemes, M. García-Hernández, J. Rubio-Zuazo, **G.R. Castro**, M. Varela, S.J. Pennycook, C. Leon and J. Santamaria
“Charge leakage” at LaMnO₃/SrTiO₃ interfaces”
Advanced Materials **22**, (2010) 627-632
<http://dx.doi.org/10.1002/adma.200902263>

103. R. Boada, M.A. Laguna-Marco, J.A. Gallastegui, **G.R. Castro** and J. Chaboy
“X-ray Magnetic Circular Dichroism measurements using X-ray Phase Retarder on the BM25 A-SpLine beamline at the ESRF”
Journal of Synchrotron Radiation **17**, (2010) 308-313
<http://dx.doi.org/10.1107/S0909049510005881>
104. S. García-Granda, S. Khainakov, A. Espina, J. Garcia, **G.R. Castro**, J. Rocha, L. Mafra
“Revisiting the Thermal Decomposition of Layered γ -Titanium Phosphate and Structural Elucidation of its Intermediate Phases”
Inorganic Chemistry **49(6)** (2010) 2630–2638
<http://dx.doi.org/10.1021/ic901254j>
105. J. Rubio-Zuazo, P. Ferrer and **G.R. Castro**
“Non-destructive compositional depth profile in the tens-of-nanometer scale”
Journal of Electron Spectroscopy and Related Phenomena **180(1-3)** (2010) 27-33
<http://dx.doi.org/10.1016/j.elspec.2010.03.013>
106. J.Rubio-Zuazo, M.Escher, M.Merkel and **G.R.Castro**
“HV-CSA 300/15: A cylindrical Sector Analyzer for electron kinetic energies up to 15keV”
Review of Scientific Instruments **81** (2010) 043304-1-043304-8
<http://dx.doi.org/10.1063/1.3398441>
107. J. García-López, V. Yañez-Rodríguez, L. Roces, S. García-Granda, A. Martínez, A. Guevara-García, **G.R. Castro**, F. Jiménez-Villacorta, M.J. Iglesias, F. López-Ortiz
"Synthesis and characterization of a coupled binuclear CuI/CuIII complex"
Journal of the American Chemical Society **132 (31)** (2010) 10665–10667
<http://dx.doi.org/10.1021/ja1034667>
108. J. Rubio-Zuazo, E.Martinez, P.Batude, L.Clavelier, A.Chabli and **G.R. Castro**
“Probing buried interfaces on Ge-based metal gate / high-k stacks by Hard X-Ray Photoelectron Spectroscopy “
Applied Surface Science **257**, (2011) 3007–3013
<http://dx.doi.org/10.1016/j.apsusc.2010.10.108>
109. L. Soriano, R. J. Mossaneck, I. Preda, M. Abbate, J. Rubio-Zuazo, **G.R. Castro**, A. Vollmer, A. Gutiérrez
“Investigation of surface and non-local screening effects in the Ni 2p core level photoemission spectra of NiO”
Chemical Physics Letters **501** (2011) 437–441
<http://dx.doi.org/10.1016/j.cplett.2010.11.050>
110. Fernández-Zapico, E.; Montejo-Bernardo, J.M.; García-Granda, S.; García, J.R.; **Castro, G.R.**; Liu, F.Y.; Rocha, J.
“New lanthanide phosphonates structures obtained using XRPD data”
Zeitschrift für Kristallographie, Supplement **1** (2011) 403-407
<http://dx.doi.org/DOI 10.1524/zkpr.2011.0061>

111. A. Nichau E. Durğun özben, M. Schnee, J.M.J. Lopes, A. Besmehn, M. Luysberg, L. Knoll, S. Habicht, V. Mussmann, R. Luptak, St. Lenk, J. Rubio-Zuazo, **G.R. Castro**, D. Buca, Q.T. Zhao, J. Schubert and S. Mantl
“Lanthanum Lutetium oxide integration in a gate-first process on SOI MOSFETs”
Ultimate Integration of Silicon, IEEE, 1-4,(2011)
<http://dx.doi.org/10.1109/ULIS.2011.5757952>
112. C. Carrasco-López, A. Rojas-Altuve, W. Zhang, M. Lee, S. Barbe, I. André, P. Ferrer, N. Silva-Martín, **G.R. Castro**, M. Martínez-Ripoll, S. Mosbashery, and J. A. Hermoso
“Molecular structure of poly(3-alkyl-thiophenes) investigated by calorimetry and grazing incidence X-ray scattering”
Journal of Biological Chemistry, **286(36)** (2011) 31714-31722
<http://dx.doi.org/10.1074/jbc.M111.264366>
113. A. Alberca, N. M. Nemes, F.J. Mompean, N. Biskup, A. de Andres, J. Tornos, C. Leon, A. Hernando, P. Ferrer, **G.R. Castro**, J. Santamaria, M. Garcia-Hernandez
“Exotic magnetic anisotropy map in epitaxial $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ films on BaTiO_3 ”
Physical Review **B84** (2011) 1344021-1344028.
<http://dx.doi.org/10.1103/PhysRevB.84.134402>
114. J. Rubio-Zuazo, and **G.R. Castro**
“Effective attenuation length dependence on photoelectron kinetic energy for Au from 1keV to 15keV”
Journal of Electron Spectroscopy and Related Phenomena **184(7)**, (2011) 384-390
<http://dx.doi.org/10.1016/j.elspec.2011.03.006>
115. J. Rubio-Zuazo, and **G.R. Castro**
“First principle study of the properties of a Cylindrical Sector Analyzer: Complete calculation of the electron trajectory”
Journal of Electron Spectroscopy and Related Phenomena **184(8-10)** (2011) 440-451
<http://dx.doi.org/10.1016/j.elspec.2011.05.005>
116. J. Abad, N. Espinosa, P. Ferrer, R. Gardía-Valverde, C. Miguel, J. Padilla, A. Alcolea, **G.R. Castro**, J. Colchero and A. Urbina.
“Molecular structure of poly(3-alkyl-thiophenes) investigated by calorimetry and grazing incidence X-ray scattering”
Solar Energy Materials and Solar Cells, **92** (2012) 109-118
<http://dx.doi.org/10.1016/j.solmat.2011.09.025>
117. P. Ferrer, Ivan da Silva, Juan Rubio-Zuazo and **G.R. Castro**
“A flow-through reaction cell for in situ X-ray diffraction and absorption studies of heterogeneous powder-liquid reactions and phase transformations”
Journal of Synchrotron Radiation **19** (2012) 93-100
<http://dx.doi.org/10.1107/S0909049511040374>
118. A. Nichau, E. Durğun özben, M. Schnee, J.M.J. Lopes, A. Besmehn, M. Luysberg, L. Knoll, S. Habicht, V. Mussmann, R. Luptak, St. Lenk, J. Rubio-Zuazo, **G.R. Castro**, D. Buca, Q.T. Zhao, J. Schubert and S. Mantl
“LaLuO₃ higher-k dielectric integration in SOI MOSFETs with a gate-first process”
Solid-State Electronics, **71** (2012) 19-24
<http://dx.doi.org/10.1016/j.sse.2011.10.014>

119. A. Gutierrez-León, J. Rubio-Zuazo, I. Montero-Ruiz and **G.R. Castro**
“Analysis in Roman brasses and bronzes using synchrotron radiation”
Archeo Sciences, Submitted (2011)
120. A Espinosa, A Serrano, A Llavona, J Jimenez de la Morena, M Abuin, A Figuerola, T Pellegrino, J F Fernández, M Garcia-Hernandez, **G R Castro**, M A Garcia
“On the discrimination between magnetite and maghemite by XANES measurements in fluorescence mode”
Measurement Science and Technology 12/2011; 23(1):015602.
<http://dx.doi.org/10.1088/0957-0233/23/1/015602>
121. A. Espinosa, A. Serrano, A. Llavona, J. Jimenez de la Morena, M. Abuin, A. Figuerola, T. Pellegrino, J. F. Fernández, M. Garcia-Hernandez, **G. R. Castro**, M. A. Garcia,
“On the discrimination between magnetite and maghemite by XANES measurements in fluorescence mode”
Meas. Sci. Technol. **23** (2012) 015602-015608
<http://dx.doi.org/10.1088/0957-0233/23/1/015602>
122. A Serrano, O Rodríguez de la Fuente, V Collado, J Rubio-Zuazo, C Monton, **G R Castro**, M A García
“Simultaneous surface plasmon resonance and x-ray absorption spectroscopy”
The Review of scientific instruments **83** (2012) 083101-7.
<http://dx.doi.org/10.1063/1.473977>
123. Pilar Ferrer, Iván da Silva, Juan Rubio-Zuazo, Belén F Alfonso, Camino Trobajo, Sergei Khainakov, Jose R Garcia, Santiago Garcia-Granda, **Germán R Castro**
“A flow-through reaction cell for in situ X-ray diffraction and absorption studies of heterogeneous powder-liquid reactions and phase transformations”
Journal of Synchrotron Radiation 01/2012; 19(Pt 1):93-100.
<http://dx.doi.org/10.1107/S0909049511040374>
124. E Iturbe-Zabalo, J M Igartua, A Larrañaga, V Pomjakushin, **G Castro**, G J Cuello
“Structural study of SrPrZnRuO₆, SrPrCoRuO₆, SrPrMgRuO₆ and SrPrNiRuO₆ double perovskite oxides by symmetry-adapted mode analysis”
Journal of Physics Condensed Matter 04/2013; 25(20):205401.
<http://dx.doi.org/10.1088/0953-8984/25/20/205401>
125. Persson, E. Lind, E. Lundgren, J. Rubio-Zuazo, **G. R. Castro**, L.-E. Wernersson, A. Mikkelsen, R. Timm
“Interface characterization of metal-HfO₂-InAs gate stacks using hard x-ray photoemission spectroscopy”
AIP Advances 07/2013; 3(7).
<http://dx.doi.org/10.1063/1.4817575>
126. J. Rubio-Zuazo, P. Ferrer, A. López, A. Gutiérrez-León, I. da Silva, **G.R. Castro**
“The multipurpose X-ray diffraction end-station of the BM25B-SpLine synchrotron beamline at the ESRF”
Nuclear Instruments and Methods in Physics Research Section A Accelerators Spectrometers Detectors and Associated Equipment 07/2013; 716:23–28.
<http://dx.doi.org/10.1016/j.nima.2013.03.019>

127. A. Gutiérrez, G. Domínguez-Cañizares, J. A. Jiménez, I. Preda, D. Díaz-Fernández, F. Jiménez-Villacorta, **G. Castro**, J. Chaboy, L. Soriano
“Hexagonally arranged NiO nanoporous membranes with varying electrical conductivity”
Applied Surface Science **276** (2013) 832-837.
<http://dx.doi.org/10.1016/j.apsusc.2013.04.007>
128. Iulian Preda, Leonardo Soriano, Daniel Díaz-Fernández, Guillermo Domínguez-Cañizares, Alejandro Gutiérrez, **Germán R Castro**, Jesús Chaboy
“X-ray absorption study of the local structure at the NiO/oxide interfaces”.
Journal of Synchrotron Radiation **20** (2013) 635-640.
<http://dx.doi.org/10.1107/S0909049513012417>
129. A Yu Petrov, X Torrelles, A Verna, H Xu, A Cossaro, M Pedio, J Garcia-Barriocanal, **G R Castro**, B A Davidson
“Surface Octahedral Distortions and Atomic Design of Perovskite Interfaces”.
Advanced Materials **25** (2013) 4043-40 06/2013;
<http://dx.doi.org/10.1002/adma.201301841>
130. Alba Pons-Balagué, Stergios Piligkos, Simon J Teat, Jose Sánchez Costa, Muhandis Shiddiq, Stephen Hill, **German R Castro**, Pilar Ferrer-Escorihuela, E Carolina Sañudo
“New Nanostructured Materials: Synthesis of Dodecanuclear Ni(II) Complexes and Surface Deposition Studies”.
Chemistry 05/2013;
<http://dx.doi.org/10.1002/chem.201204081>
131. Pilar Ferrer, Juan Rubio-Zuazo, Catherine Heyman, Fatima Esteban-Betegón, **Germán R Castro**
“Multi-use high/low-temperature and pressure compatible portable chamber for in situ grazing-incidence X-ray scattering studies”.
Journal of Synchrotron Radiation 05/2013; 20(Pt 3):474-481.
<http://dx.doi.org/10.1107/S0909049513002598>
132. E Iturbe-Zabalo, J M Igartua, A Larrañaga, V Pomjakushin, **G Castro**, G J Cuello
“Structural study of SrPrZnRuO6, SrPrCoRuO6, SrPrMgRuO6 and SrPrNiRuO6 double perovskite oxides by symmetry-adapted mode analysis”.
Journal of Physics Condensed Matter 04/2013; 25(20):205401.
<http://dx.doi.org/10.1088/0953-8984/25/20/205401>
133. A. Nichau, M. Schnee, J. Schubert, A. Besmehn, J. Rubio-Zuazo, U. Breuer, P. Bernardy, B. Holländer, A. Mücklich, **G. R. Castro**, J. von Borany, D. Buca, S. Mantl
“Photoemission spectroscopy study of the lanthanum lutetium oxide/silicon interface”.
The Journal of Chemical Physics 04/2013; 138(15):154709.
<http://dx.doi.org/10.1063/1.4801324>
134. A Gutiérrez-León, C Heyman, J Rubio-Zuazo, **G R Castro**
“Development of an on-axis-visualization stage to observe and align sample with an x-ray beam”.
Journal of Physics Conference Series 03/2013; 425(21):212013.
<http://dx.doi.org/10.1088/1742-6596/425/21/212013>

135. P Ferrer, I da Silva, C Heyman, J Rubio-Zuazo, **G R Castro**
 “A portable powder-liquid high corrosion-resistant reaction cell for in situ X-ray diffraction and absorption studies of heterogeneous powder-liquid reactions and phase transformations”.
 Journal of Physics Conference Series 03/2013; 425(13):132001.
<http://dx.doi.org/10.1088/1742-6596/425/13/132001>
136. J Rubio-Zuazo, Victor Collado-Negro, C Heyman, Pilar Ferrer, Iván da Silva, J A Gallastegui, A Gutiérrez-León, **G R Castro**
 “A double crystal X-ray monochromator for the SpLine diffraction and absorption synchrotron bending magnet beamline at the ESRF”
 Journal of Physics Conference Series 03/2013; 425(5):052005.
<http://dx.doi.org/10.1088/1742-6596/425/5/052005>
137. P Ferrer, J Rubio-Zuazo, C Heyman, F Esteban-Betegón, **G R Castro**
 “A multipurpose ultra-high vacuum-compatible chamber for in situ X-ray surface scattering studies over a wide range of temperature and pressure environment conditions”.
 Journal of Physics Conference Series 03/2013; 425(13):132002.
<http://dx.doi.org/10.1088/1742-6596/425/13/132002>
138. J Rubio-Zuazo, M Escher, N Weber, M Merkel, **G R Castro**
 “A Two-dimensional event-counting detector for HV-CSA electrostatic analyzer at SpLine the Spanish CRG beamline at the ESRF”.
 Journal of Physics Conference Series 03/2013; 425(8):082001.
<http://dx.doi.org/10.1088/1742-6596/425/8/082001>
139. Pilar Ferrer, Juan Rubio-Zuazo, **German R. Castro**
 “Study of solid/liquid and solid/gas interfaces in Cu–isoleucine complex by surface X-ray diffraction”.
 Applied Surface Science **267** (2013) 124–127.
<http://dx.doi.org/10.1016/j.apsusc.2012.08.039>
140. A. Nichau, J. Rubio-Zuazo, M. Schnee, **G. R. Castro**, J. Schubert, S. Mantl
 “Effective attenuation length for lanthanum lutetium oxide between 7 and 13 keV”
 Applied Physics Letters 01/2013; 102(3).
<http://dx.doi.org/10.1063/1.4789524>
141. Noelia Benito, Ramón Escobar Galindo, Juan Rubio-Zuazo, **Germán R Castro**, Carlos Palacio
 “High- and low-energy x-ray photoelectron techniques for compositional depth profiles: destructive versus non-destructive methods”.
 Journal of Physics D Applied Physics 01/2013; 46(6):065310.
<http://dx.doi.org/10.1088/0022-3727/46/6/065310>
142. Juan Rubio-Zuazo and **German R. Castro**
 “Beyond hard x-ray photoelectron spectroscopy: Simultaneous combination with x-ray diffraction”.
 J. Vac. Sci. Technol. **A31** (2013) 031103
<http://dx.doi.org/10.1116/1.4801915>

143. A. Gutiérrez, G. Domínguez-Cañizares, J.A. Jiménez, I.Preda, D. Díaz-Fernández, F. Jiménez-Villacorta, **G.R. Castro**, J. Chaboy, L. Soriano
 “Hexagonally-arranged-nanoporous and continuous NiO films with varying electrical conductivity”.
 Applied Surface Science **276** (2013) 832-837
<http://dx.doi.org/10.1016/j.apsusc.2013.04.007>
144. A. de Pablos-Martín, M.A. García, A. Muñoz-Noval, **G.R. Castro**, M.J. Pascual and A. Durán
 "Analysis of the distribution of Tm³⁺ ions in LaF₃ containing transparent glass-ceramics through X-Ray Absorption Spectroscopy",
 Journal of Non-Crystalline Solids Manuscript **384**; (2014) 83-87
<http://dx.doi.org/10.1016/j.jnoncrysol.2013.07.021>
145. G. Domínguez-Cañizares, A. Gutiérrez, J. Chaboy, D. Díaz-Fernández, **G. R. Castro** and L. Soriano
 “Effects of grain refinement and disorder on the electronic properties of nanocrystalline NiO”
 Journal of Materials Science **49** (2014) 2773-2780
<http://dx.doi.org/10.1007/s10853-013-7980-7>
146. J. Rubio-Zuazo, L. Onandía, P. Ferrer and **G.R.Castro**
 “Correlation between the electronic and atomic structure, transport properties and oxygen vacancies on La_{0.7}Ca_{0.3}MnO₃ thin films”
 Appl. Phys. Lett. **104** (2014) 0216041-4
<http://dx.doi.org/10.1063/1.4861385>
147. L. Badái-Romano, J. Rubín, F. Bartolomé and J. Bartolomé S. OVCHINNIKOV and S. VARNAKOVC. MAGÉNJ. RUBIO-ZUAZO and **G. R. CASTRO**
 “Morphological and Compositional Study at the Si/Fe Interface of (Fe/Si) Multilayer”
 SPIN **Vol. 4, No. 1** (2014) 1440002
<http://dx.doi.org/10.1142/S2010324714400025>
148. Alejandro Gómez-Pérez, Juan Carlos Pérez-Flores, Clemens Ritter, Khalid Boulahya, **G.R. Castro**, Flaviano García-Alvarado and Ulises Amador
 “Structure evolution with Sr content of the perovskite-like materials La_{2-x} Sr_xCoTiO₆ (0 ≤ x ≤ 0.5)”
 Journal of Applied Crystallography: **47** (2014) 745-754
<http://dx.doi.org/10.1107/S1600576714004907>
149. Amghouz, Zakariae; Escalera, Beatriz; Khainakov, Sergei; da Silva, Iván; **Castro, Germán**; García-Granda, Santiago; Garcia, Jose
 “Dimensionality Changes in Solid Phase at Room Temperature: 2D->1D->3D Evolution Induced by Ammonia Sorption/desorption on Zinc Phosphates”
 Journal of the American Chemical Society: accepted 2014
<http://dx.doi.org/10.1039/C4CC01314J>

- 150.** Iván da Silva, **Germán R. Castro**, Zakariae Amghouz, Sergei A. Khainakov, Santiago García-Granda, José R. Carcía
“Crystal structure and thermal behavior of a chromiumpiperazinium phosphate”
Journal of Thermal Analysis and Calorimetry **117** (2014) 1179–1186
<http://dx.doi.org/10.1007/s10973-014-3894-0>
- 151.** Xavier Díez-Betriu, Federico J. Mompeán, Carmen Munuera, Juan Rubio-Zuazo, Rosa Menéndez, **Germán R. Castro**, Alicia de Andrés
“Graphene-Oxide Stacking and Defects in Few-Layer Films: Impact of Thermal and Chemical Reduction”
Carbon (2014)
<http://dx.doi.org/10.1016/j.carbon.2014.08.016>

10.- Presentations

10.1.- Invited talks (conferences, seminars, colloquia, etc.)

- 1 CASTRO, Germán Rafael.
"Sputtering Untersuchungen über CoSi Legierungen".
Physikalisch-Chemisches Institut, Universität München.
October 1980.
Munich, Germany.
- 2 CASTRO, Germán Rafael.
"Elektronische Eigenschaften von CoSi Legierungen durch A.P.S. und U.P.S. Spektroskopien".
Physikalisch-Chemisches Institut, Universität München.
November 1980.
Munich, Germany.
- 3 CASTRO, Germán Rafael.
"Spektroskopische Untersuchungen an Übergang-Metall- Legierungen".
Physikalisches Institut, Universität Heidelberg.
January 1982.
Heidelberg, Germany.
- 4 CASTRO, Germán Rafael.
"Neuen Entwicklungen an Auftrittspotential Spektroskopie".
Physikalisches Institut, Universität Würzburg.
January 1982.
Würzburg, Germany.
- 5 CASTRO, Germán Rafael
"El Uso de las Espectroscopías Electrónicas para el Estudio de Superficies Metálicas".
Departamento de Física, Universidad de Los Andes.
Noviembre/1982.
Mérida, Venezuela.
- 6 CASTRO, Germán Rafael.
"Estructura Electrónica de Aleaciones de CoSi".
Centro de Física, I.V.I.C.
Octubre/1983.
Altos de Pipe, Venezuela.
- 7 CASTRO, Germán Rafael.
"A.E.S. y E.S.C.A. Principios Físicos y Aplicaciones".
Centro de Química, I.V.I.C.
Octubre/1983.
Altos de Pipe, Venezuela.
- 8 CASTRO, Germán Rafael.

"Espectroscopía Auger, Usos y Aplicaciones".
Escuela de Química, Fac. de Ciencias, Universidad Central de Venezuela
Abril/1984.
Caracas, Venezuela.

- 9 CASTRO, Germán Rafael.
"Selektives Sputtern an FeSi(100) mit Ar⁺, Kr⁺ und Ne⁺ -Ionen".
Institut für Physikalische Chemie der Universität München.
Febrero/1985.
München, Germany .
- 10 CASTRO, Germán Rafael.
"Uso de las Espectroscopías X.P.S., A.E.S. y S.I.M.S. en el Uso de Catalizadores Reales".
Tópico Especial.
VII Encuentro Nacional de Catálisis.
March/1985.
Cumaná, Venezuela.
- 11 CASTRO, Germán Rafael.
"Auger vs. ESCA, Ventajas y Desventajas".
INTEVEP.
Mayo/1985.
Los Teques, Venezuela.
- 12 CASTRO, Germán Rafael.
"Estructura Electrónica del FeSi y del CoSi mediante el Uso de las Espectroscopías
Electrónicas AES y UPS".
Centro de Física, I.V.I.C.
Junio/1985.
Caracas, Venezuela.
- 13 CASTRO, Germán Rafael.
"Wechselwirkung von Sauerstoff und Kohlenmonoxid mit FeSi(100)".
Seminario del Departamento de Física de Superficies del Instituto Fritz-Haber de la
Sociedad Max Planck de Berlín.
Octubre/1986.
Berlín, Germany .
- 14 CASTRO, Germán Rafael.
"Die Rolle der d-Elektronen in der Wechselwirkung von Wasserstoff mit Al(110) und
Ni(111)".
Seminario del Departamento de Físico-Química del Instituto Fritz-Haber.
Octubre/1986.
Berlín, Germany .
- 15 CASTRO, Germán Rafael.
"Elektronenspektroskopische Untersuchungen an Legierungsoberflächen".
Vortrag im Rahmen des Festkörper-Seminars an der Universität Dortmund.
Noviembre/1987.
Dortmund, Germany .

- 16 CASTRO, Germán Rafael.
"CO Wechselwirkung mit NiAl(110)".
Max-Planck-Institut für Plasmaphysik.
Noviembre/1989.
Garching bei München, Germany .
- 17 CASTRO, Germán Rafael.
"Interacción de potasio con la superficie Rh(111): Un catalizador modelo"
INTEVEP, Centro de Investigación y Apoyo Tecnológico, Filial de Petróleos de Venezuela.
Julio/1991
Los Teques, Venezuela
- 18 CASTRO, Germán Rafael.
"Caracterización superficial de la superficie (111) de la aleación ordenada Cu₃Pt"
INTEVEP, Centro de Investigación y Apoyo Tecnológico, Filial de Petróleos de Venezuela.
Julio/1991
Los Teques, Venezuela
- 19 CASTRO, Germán Rafael.
"Interacción de CO con la superficie Cu₃Pt(111)"
Escuela de Química, Fac. de Ciencias, Universidad Central de Venezuela
Julio/1991
Caracas, Venezuela
- 20 CASTRO, Germán Rafael.
"Estudio de la forma de línea Auger mediante un espectrómetro CMA"
Escuela de Física, Fac. de Ciencias, Universidad Central de Venezuela
Julio/1991
Caracas, Venezuela
- 21 CASTRO, Germán Rafael.
"Interacción de CO con la superficie (111) de la aleación ordenada Cu₃Pt"
Universidad Autónoma de Madrid
Mayo/1992
Madrid, España.
- 22 CASTRO, Germán Rafael.
"Interacción de moléculas pequeñas con superficies de aleaciones monocristalinas"
Consejo Superior de Investigaciones Científicas, Madrid
Mayo/1992
Madrid, España.
- 23 CASTRO, Germán Rafael.
"Interacción de CO con NiAl(110) y Cu₃Pt(111): Mecanismo de Enlace"
Universidad Autónoma de Madrid
Septiembre/1992
Madrid, España.
- 24 CASTRO, Germán Rafael.

"Catalisis heterogenea desde el punto de vista de la ciencia de Superficies"
Escuela de Química, Fac. de Ciencias, Universidad Central de Venezuela
Septiembre/1992
Caracas, Venezuela

- 25 CASTRO, Germán Rafael.
"Bonding mechanism of CO on surfaces of Transitions metals".
Institut für Physikalische Chemie der Universität Bonn.
Diciembre/1992.
Bonn/Germany.
- 26 CASTRO, Germán Rafael.
"Adsorption of H₂ and CO on the ordered Cu₃Pt(111) surface".
Institut für Physikalische und Theoretische Chemie der Universität, Freie Universität Berlin.
Febrero/1993
Berlin/Germany.
- 27 CASTRO, Germán Rafael.
"Mecanismo de enlace del CO sobre la superficie de aleaciones ordenadas : Cu₃Pt(111)"
Escuela de Física, Fac. de Ciencias, U.C.V.
Marzo/1993
Caracas, Venezuela
- 28 CASTRO, Germán Rafael.
"Estructura Electrónica de Aleaciones de CoSi".
Centro de Química, I.V.I.C.
Marzo/1993.
Altos de Pipe, Venezuela.
- 29 CASTRO, Germán Rafael.
"Interacción de CO con aleaciones ordenadas: teoría y experimentos"
Depto. de la Materia Condensada, C-III; Universidad Autónoma de Madrid
Octubre/1993
Madrid, España.
- 30 CASTRO, Germán Rafael.
"Adsorptionseigenschaften von binären Legierungsoberflächen: an den Beispielen der NiAl(110) und Cu₃Pt(111) Flächen"
Fachgruppe Chemie, Universität Bonn
Noviembre/1993
Bonn, Germany.
- 31 CASTRO, Germán Rafael.
"Adsorptionseigenschaften von binären Legierungsoberflächen: am Beispiel der NiAl(110) Fläche"
Osterreichisches Gesellschaft für Vakuumtechnik Seminar für Oberflächenphysik der TU
Graz, Technische Universität Graz
Abril/1994
Graz, Austria
- 32 CASTRO, Germán Rafael.

"Wasserstoffwechselwirkung mit der geordneten Cu₃Pt(111) Oberflächen: Dissoziation über einzelne Pt-Atome"

Fakultät für Chemie, Ruhr-Universität Bochum

Noviembre/1993

Bochum, Germany

- 33 CASTRO, Germán Rafael.
"Interaction of Hydrogen with Cu₃Pt(111): Dissociation via single platinum atoms"
Consejo Superior de Investigaciones Científicas, Madrid
Octubre/1994
Madrid, ESpaña
- 34 CASTRO, Germán Rafael.
"Characterization and Oxidation of Fe₃Si(100) single crystal"
Tandemkolloquium, Naturwissenschaftliche Fakultät der Universität Erlangen-Nürnberg
November 1994
Erlangen, Germany
- 35 CASTRO, Germán Rafael.
"Adsorptionseigenschaften von binären Legierungsoberflächen: am Beispiel der NiAl(110) Fläche"
Lehrstuhl für Festkörperphysik, Universität Erlangen-Nürnberg
November 1994
Erlangen, Germany
- 36 CASTRO, Germán Rafael.
"Hydrogen interaction with the (111) surface of the ordered Cu₃Pt alloy: Dissociation via single platinum atoms"
Lehrstuhl für Experimentalphysik VI, Universität Bayreuth
Febrero/1995
Bayreuth, Germany
- 37 CASTRO, Germán Rafael.
"Characterization and oxidation of Fe₃Si(100) single crystal surfaces"
European Synchrotron Radiation Facility, ESRF
February 1996
Grenoble, France
- 38 CASTRO, Germán Rafael.
"Some design proposals"
14TH CRG Club Meeting, European Synchrotron Radiation Facility, ESRF
October 1998
Grenoble, France
- 39 CASTRO, Germán Rafael.
"A Sagittal Focusing Double Crystal Monochromator for the Spline beamline at the ESRF"
Second Workshop on "Methods and Applications of Curved X-Ray Optics"
October 1999
Weimar, Germany
- 40 CASTRO, Germán Rafael.

- “SpLine: La línea española de ciencia de materiales en el ESRF. Capacidades experimentales y escala temporal”
 “XIII Simposio del Grupo especializado de cristalografía”
 July 2002
 Oviedo, Spain
- 41 CASTRO, Germán Rafael.
 “Fotoemisión de alta energía en la línea española “SpLine” del sincrotrón ESRF [Grenoble]”
 “Instituto de Ciencia de Materiales de Sevilla- CSIC
 October 2003
 Seville, Spain
- 42 CASTRO, Germán Rafael.
 “Presentación de SpLine (BM25)”
 1er Reunión Nacional de Usuarios de Radiación Sincrotón- AUSE
 February 2004
 Malaga, Spain
- 43 CASTRO, Germán Rafael.
 “Beyond Standard beyond standard surface X-ray diffraction”
 Surface Diffraction Round Table, European Synchrotron radiation Facility
 March 2004
 Grenoble, France
 La Coruña, Spain
- 44 CASTRO, Germán Rafael.
 “Beyond Standard X-ray Diffraction: a view from the SpLine side”
 Dpto. De Física, Facultad de Ciencia, Universidad de Oviedo
 May 2005
 Oviedo, Spain
- 45 CASTRO, Germán Rafael.
 “SpLine: the Spanish Material Science CRG beamline at the ESRF”
 Surface Diffraction Round Table, European Synchrotron radiation Facility
 July 2005
 Grenoble, France
- 46 CASTRO, Germán Rafael.
 “SpLine: the Spanish Material Science CRG beamline at the ESRF”
 II Reunión Anual de la Asociación. de Usuarios de Sincrotrón de España. (AUSE)
 September 2005
 El Escorial, Spain
- 47 CASTRO, Germán Rafael.
 “Beam-lines design”
 XII International Summer School “Nicolás Cabrera”. Frontiers in science and technology: Synchrotron Light as powerful tool for materials analysis
 19-23 September 2005
 Miraflores de la Sierra, Residencia La Cristalera, Spain
- 48 CASTRO, Germán Rafael.

“La radiación sincrotrón: una herramienta para viajar por el interior de la materia”
Jornadas Científicas “Un viaje por la Materia” IES Cangas del Narcea
April 2006
Cangas del Narcea, Spain

- 49 CASTRO, Germán Rafael.
“SpLine: the Spanish Material Science CRG beamline at the ESRF”
"Center for Advanced Technological and Environmental Training (FTU) of "Forschungs-
Zentrums Karlsruhe FZK"
May 2006
Karlsruhe, Germany
- 50 CASTRO, Germán Rafael.
“Radiación Sincrotrón: fuentes de radiación, óptica de rayos X, estaciones experimentales”
Dpto. de Física, Facultad de Ciencias, Universidad Central de Venezuela
October 2006
Caracas, Venezuela
- 51 CASTRO, Germán Rafael.
“SpLine: the Spanish Material Science CRG beamline at the ESRF”
Dpto. de Física, Facultad de Ciencias, Universidad Central de Venezuela
October 2006
Caracas, Venezuela
- 52 CASTRO, Germán Rafael.
“Difracción de Rayos X en Superficies: Fundamentos y ejemplos de aplicación”
Dpto. de Física, Facultad de Ciencias, Universidad Central de Venezuela
October 2006
Caracas, Venezuela
- 53 CASTRO, Germán Rafael.
“Fotoemisión a muy altas energías: Fundamentos y ejemplos de aplicación”
Dpto. de Física, Facultad de Ciencias, Universidad Central de Venezuela
October 2006
Caracas, Venezuela
- 54 CASTRO, Germán Rafael.
“La radiación sincrotrón: una herramienta para viajar por el interior de la materia”
Facultad de Ciencias, Universidad Central de Venezuela
October 2006
Caracas, Venezuela
- 55 CASTRO, Germán Rafael.
“La radiación sincrotrón: una herramienta para viajar por el interior de la materia”
Dpto. de Física, Universidad Simón Bolívar
October 2006
Caracas, Venezuela
- 56 CASTRO, Germán Rafael.

“Estación experimental de fotoemisión de altas energías y de difracción de superficies en SpLine: Ejemplos relevantes”
Aplicación de la radiación Sincrotrón a la caracterización de Materiales-Instituto de Ciencia de Materiales - CSIC
April 2007
Sevilla, Spain

57. CASTRO, Germán Rafael.
“ESRF Sincrotrón Europeo”
Ciclo de Conferencias: “Grandes Instalaciones Científicas Europeas”
May 2007
Bilbao, Spain
58. J.Rubio-Zuazo, G.R.Castro. Oral communication: G.R.Castro.
“Hard X-Ray Photoemission activities in the SpLine Project at the ESRF”
Workshop on Hard X-Ray Photoemission in Materials Science. Recent Progress and Future Directions.
14th -15th October 2008,
Advanced Light Source at the Lawrence Berkeley National Laboratory, Berkeley, CA (USA)
59. J.Rubio-Zuazo, N.Weber, M.Escher, M. Merkel, G.R.Castro. Oral communication: M. Merkel
“A novel HAXPES Analyzer up to 15 keV”
Workshop on Hard X-Ray Photoemission in Materials Science. Recent Progress and Future Directions.
14th -15th October 2008,
Advanced Light Source at the Lawrence Berkeley National Laboratory, Berkeley, California (US).
60. G.R.Castro, Oral communication
"Laboratory - and synchrotron - photoelectron spectroscopy: Physics of electronic and chemical materials characterization"
Wilhelm and Else Heraeus Physics School. “Nanoscaled Oxides–Big Opportunities in Small Structures”,
August 2009
Bad Honnef, Germany
61. G.R.Castro, Oral communication
"Synchrotron – photoelectron spectroscopy: Innovative photoelectron spectroscopy techniques with hard X-ray radiation"
Wilhelm and Else Heraeus Physics School. “Nanoscaled Oxides–Big Opportunities in Small Structures”,
August 2009
Bad Honnef, Germany
62. G.R.Castro, Oral communication
“La línea española SpLine del ESRF. Fotoemisión a altas energías”
Aplicación de la radiación Sincrotrón a la caracterización de Materiales - Instituto de Ciencia de Materiales de Sevilla – CSIC.
April 2009,
Sevilla, Spain.

63. G.R.Castro, Oral communication
“ The HAXPES Station at SpLine, the Spanish CRG BM25 Beamline at the ESRF: A Novel Tool for Non-Destructive Characterization of Bulk and Buried Interfaces”
HAXPES workshop at SOLEIL international workshop on HAXPES as a satellite of the 5th Users Meeting of SOLEIL.
18th -19th January 2010
Synchrotron SOLEIL- St Aubin - 91190 GIF-SUR-YVETTE, France
64. G.R.Castro, Oral communication
"Characterisation of hybrids through large instruments facilities:
The example of the Institute Laue-Langevin and the European Synchrotron Radiation Facility in Grenoble, France”
COST MP1202 HINT Kickoff Meeting and Training School 2013
2-5 April 2013
ICMCB-CNRS Bordeaux, France
66. G.R.Castro, Oral communication
"Status and performances of SpLine, the Spanish CRG BM25 beamline at the European Synchrotron Radiation Facility”
ALBA Users meeting 2013 and VI AUSE conference
3-6 September 2013
ALBA synchrotron - Cerdanyola del Vallès, Spain

10.2.- Poster and oral presentations at scientific conferences

- 1 CASTRO, Germán Rafael y KÜPPERS, Jürgen.
"Oxygen Interaction with CoSi(100) and CoSi₂(100) Surfaces".
4th. European Conference on Surface Science ECOSS 4.
Septiembre/1981.
Münster, Germany .
- 2 CASTRO, Germán Rafael y CUARTIN, Elías.
100."Densidad de Estados Desocupados a través de la Deconvolución de la Señal A.P.S.".
33a. Convención Anual de AsoVAC.
Octubre/1983.
Caracas, Venezuela.
- 3 CASTRO, Germán Rafael.
"Estudio del "Sputtering" Selectivo mediante el Uso de la Espectroscopía Auger de Monocristales de CoSi(100) y CoSi₂(100)".
33a. Convención Anual de AsoVAC.
Octubre/1983.
Caracas, Venezuela.
- 4 CASTRO, Germán Rafael y BALLESTEROS, Antonio.
"Estudio del "Sputtering" Selectivo mediante el Uso de la Espectroscopía Auger de un monocristal de FeSi(100)".
33a. Convención Anual de AsoVAC.
Octubre/1983.
Caracas, Venezuela.
- 5 CASTRO, Germán Rafael.
"Interacción de Oxígeno con Superficies de Cobalto Recristalizado".
33a. Convención Anual de AsoVAC.
Octubre/1983.
Caracas, Venezuela.
- 6 CASTRO, Germán Rafael.
"Interacción de Oxígeno con las Superficies CoSi(100) y CoSi₂(100)".
33a. Convención Anual de AsoVAC.
Octubre/1983.
Caracas, Venezuela.
- 7 CASTRO, Germán Rafael y RODRIGUEZ, Enrique.
"Estudio de la Estructura Electrónica del FeSi por medio de las Espectroscopías U.P.S., A.E.S. y Mössbauer".
33a. Convención Anual de AsoVAC.
Octubre/1983.
Caracas, Venezuela.

- 8 CASTRO, Germán Rafael y BALLESTEROS, Antonio.
"Sputtering Preferencial en la Superficie de un Mono- cristal de FeSi(100) por efecto del Bombardeo Iónico con Argón, Neón y Kriptón".
III Simposio Latinoamericano de Física de Superficies, Partículas Pequeñas y Películas Delgadas.
Septiembre/1984.
San José, Costa Rica.
- 9 CASTRO, Germán Rafael y BALLESTEROS, Antonio.
"Nuevo Método para la Determinación de Factores de Sensibilidad Relativa en Auger-Cuantitativo para Aleaciones Binarias Homogéneas".
III Simposio Latinoamericano de Física de Superficies, Partículas Pequeñas y Películas Delgadas.
Septiembre/1984.
San José, Costa Rica.
- 10 CASTRO, Germán Rafael; MARTIN, Luis y ROMERO, José.
"Diseño y Construcción de un Sistema Digital de Adquisición de Datos para acoplar a un Detector de Electrones Auger y un Detector de Fotoemisión U.P.S.".
34a. Convención Anual de AsoVAC.
Noviembre/1984.
Cumaná, Venezuela.
- 11 CASTRO, Germán Rafael y BALLESTEROS, Antonio.
"Nuevo Método para la Determinación de Factores de Sensibilidad Relativa en Auger-Cuantitativo para Aleaciones Binarias Homogéneas".
34a. Convención Anual de AsoVAC.
Noviembre/1984.
Cumaná, Venezuela.
- 12 CASTRO, Germán Rafael y BALLESTEROS, Antonio.
"Sputtering Preferencial en la Superficie de un Monocristal de FeSi(100) por efecto del Bombardeo Iónico con Argón, Neón y Kriptón".
34a. Convención Anual de AsoVAC.
Noviembre/1984.
Cumaná, Venezuela.
- 13 CASTRO, Germán Rafael; TACCONI, Patricia y SEVERINO, Francisco.
"Uso de la Espectroscopía Auger para la Caracterización Superficial de Catalizadores Reales de Base Cobre-Cromo para la Oxidación de Monóxido de Carbono".
34a. Convención Anual de AsoVAC.
Noviembre/1984.
Cumaná, Venezuela.
- 14 CASTRO, Germán Rafael; LEZAMA, Miguel; ROMERO, José y MARTIN, Luis.
"Interface de Comunicación entre un Espectrómetro de Fotoemisión y un Computador Central".
34a. Convención Anual de AsoVAC.
Noviembre/1984.
Cumaná, Venezuela.

- 15 CASTRO, Germán Rafael; RODRIGUEZ, Enrique y CUARTIN, Elías.
"Diseño, Construcción e Implementación de un Espectrómetro de Fotoemisión U.P.S. y medidas sobre Au".
34a. Convención Anual de AsoVAC.
Noviembre/1984.
Cumaná, Venezuela.
- 16 CASTRO, Germán Rafael; TACCONI, Patricia; YUNES, Simón; SEVERINO, Francisco y LAINE, Jorge.
"Caracterización de Oxido Cúprico y Cromita de Cobre por Espectroscopías de Superficie A.E.S. y X.P.S.".
VII Encuentro Nacional de Catálisis.
Marzo/1985.
Cumaná, Venezuela.
- 17 ROSA-BRUSSIN, M., SEPULVEDA, G.; ROJAS C.; CASTRO, G.R.; RAMIREZ DE AGUDELO, M.; ARMENGOL, G. y FRIAS, G.
"Caracterización de un Catalizador de Arcilla por Espectroscopía Electrónica Auger, Foelectrónica de Rayos X y Microsonda Electrónica".
VII Encuentro Nacional de Catálisis.
Marzo/1985.
Cumaná, Venezuela.
- 18 CASTRO, Germán Rafael.
"Uso de las Espectroscopías X.P.S., A.E.S. y S.I.M.S. en el Uso de Catalizadores Reales".
Tópico Especial.
VII Encuentro Nacional de Catálisis.
Marzo/1985.
Cumaná, Venezuela.
- 19 CASTRO, Germán Rafael; BENZO, Zuly y CARRION, Nereida.
"Treatment of Graphite Atomizers by Metallic Deposition for Atomic Absorption Spectroscopy".
Colloquium Spectroscopicum Internationale XXIV.
Septiembre/1985.
Garmisch-Partenkirchen, Germany .
- 20 CASTRO, Germán Rafael y RODRIGUEZ, Enrique.
"Estudio de la Estructura Electrónica de las Superficies FeSi(100) y CoSi(100) mediante el Uso de Espectroscopías Electrónicas".
35a. Convención Anual de AsoVAC.
Noviembre/1985.
Mérida, Venezuela.
- 21 CASTRO, Germán Rafael; ESCALONA, Iván y ESPINOZA, Luis.
"Estudio de la Adsorción de Oxígeno sobre la Superficie de FeSi(100) mediante Técnicas de Espectroscopías Electrónicas".
35a. Convención Anual de AsoVAC.
Noviembre/1985.
Mérida, Venezuela.

- 22 CASTRO, Germán Rafael; ESCALONA, Iván y ESPINOZA, Luis.
"Estudio de la Adsorción de Monóxido de Carbono y de la Coadsorción de Monóxido de Carbono sobre la superficie de FeSi(100) mediante Técnicas de Espectroscopías Electrónicas".
35a. Convención Anual de AsoVAC.
Noviembre/1985
Mérida, Venezuela.
- 23 CASTRO, Germán Rafael; MORENO, José Alí y ESPINOZA, Luis.
"Interacción de CO con Cobalto Policristalino".
35a. Convención Anual de AsoVAC.
Noviembre/1985.
Mérida, Venezuela.
- 24 CASTRO, Germán Rafael; CABRERA, Juan Luis y MARTIN, Luis.
"Diseño y Construcción de un Novedoso Espectrómetro de APS y su Implementación con Cobalto Policristalino".
35a. Convención Anual de AsoVAC.
Noviembre/1985.
Mérida, Venezuela.
- 25 CASTRO, Germán Rafael; BENZO, Zuly; CARRION, Nereida y FLORES, J.
"Tratamiento de Atomizadores Electrotérmicos mediante Deposición Metálica para Espectroscopía de Adsorción Atómica (EAA)".
35a. Convención Anual de AsoVAC.
Noviembre, 1985.
Mérida, Venezuela.
- 26 CASTRO, Germán Rafael; BRITO, J.L. y LAINE, Jorge.
"Caracterización Superficial de Catalizadores de Hidrosulfuración mediante Espectroscopía Auger".
35 Convención Anual de AsoVAC.
Noviembre/1985.
Mérida, Venezuela.
- 27 CASTRO, Germán Rafael; RUETTE, Fernando; LUDEÑA, Eduardo y HERNANDEZ, Antonio.
"Explicación Teórica de los Cambios del Espectro de UPS debido a la Quimisorción de Hidrógeno sobre Níquel".
35a. Convención Anual de AsoVAC.
Noviembre/1985.
Mérida, Venezuela.
- 28 CASTRO, G.R.; SEVERINO, F.; BRITO, J.L. y LAINE, J.
"Efectos del Pretratamiento con CO del Promotor en Catalizadores no soportados de Cobre y Cromo".
X Simposio Iberoamericano de Catálisis.
Julio/1986.
Mérida, Venezuela.

- 29 SEVERINO, F.; BRITO, J.L.; LAINE, J. y CASTRO, G.R.
"Estudios por Espectroscopía Auger de Catalizadores Soportados para Hidrodesulfuración".
X Simposio Iberoamericano de Catálisis.
Julio/1986.
Mérida, Venezuela.
- 30 LAINE, J.; ALBORNOZ, A.; BRITO, J.; CARIAS, O.; CASTRO, G.R.; SEVERINO, F. y VALERA, D.
"Development of a Copper Chromite Catalyst for Carbon Monoxide Automobile Emission Control".
Catalysis and Automotive Pollution Control
Septiembre/1986.
- 31 RODRIGUEZ, L.; RUETTE, F.; CASTRO, G.R.; HERNANDEZ, A. y LUDEÑA, E.V.
"Estudio Teórico de la Adsorción de Oxígeno Atómico sobre la cara (100) del FeSi".
Cuarto Simposio Latinoamericano de Física de Superficies, Partículas Pequeñas y Películas Delgadas, SLAFS 4.
Julio/1986.
Caracas, Venezuela.
- 32 RODRIGUEZ, L.; RUETTE, F.; LUDEÑA, E.V.; CASTRO, G.R. y HERNANDEZ, A.
"Estructura Electrónica del FeSi".
Cuarto Simposio Latinoamericano de Física de Superficies, Partículas Pequeñas y Películas Delgadas, SLAFS 4.
Julio/1986.
Caracas, Venezuela.
- 33 CASTRO, Germán Rafael y ESCALONA, Iván.
"Interacción de Oxígeno y Monóxido de Carbono con la Superficie (100) de FeSi".
Cuarto Simposio Latinoamericano de Física de Superficies, Partículas Pequeñas y Películas Delgadas, SLAFS 4.
Julio/1986.
Caracas, Venezuela.
- 34 BRITO, J.L.; CASTRO, G.R.; SEVERINO, F. y LAINE, J.
"AES Study of Hydrodesulfurization Catalysts".
Cuarto Simposio Latinoamericano de Física de Superficies, Partículas Pequeñas y Películas Delgadas, SLAFS 4.
Julio/1986.
Caracas, Venezuela.
- 35 CASTRO, G.R.; TACCONI, P.; SEVERINO, F.; LAINE, J. y YUNES, S.
"Caracterización de Catalizadores utilizados en la Oxidación de CO empleando las Técnicas de AES y XPS".
Cuarto Simposio Latinoamericano de Física de Superficies, Partículas Pequeñas y Películas Delgadas, SLAFS 4.
Julio/1986.
Caracas, Venezuela.

- 36 CASTRO, G.R.; DRAKOVA, D.; DOYEN, G.
"Model Hamiltonian Investigation of Adsorption at Metal Surfaces: The Role of d-Electrons".
9th European Conference on Surface Science (ECOSS-9).
Abril/1987.
Lucerna, Suiza.
- 37 ISERN, H.; CASTRO, G.R.
"Adsorption von Sauerstoff auf NiAl(110)".
Conferencia Anual de la Sociedad Alemana de Física (Tagung der Deutsche Physikalische Gesellschaft).
Marzo/1988.
Karlsruhe, Germany .
- 38 PERVAN, P.; CASTRO, G.R.; WANDEL, K.
"Potassium Adsorption on Si(110)2x1: Local Work Function Study by means of PAX".
Conferencia Anual de la Sociedad Alemana de Física (Tagung der Deutsche Physikalische Gesellschaft).
Marzo/1988.
Karlsruhe, Germany .
- 39 PERVAN, P.; CASTRO, G.R., WANDEL, K.
"Potassium-Promoted Oxidation of Si(100)2x1: Microscopic Mechanism".
Conferencia Anual de la Sociedad Alemana de Física (Tagung der Deutsche Physikalische Gesellschaft).
Marzo/1988.
Karlsruhe, Germany .
- 40 ISERN, H.; CASTRO, G.R.
"Initial Interaction of Oxygen with a NiAl(110) Single Crystal: A LEED and AES Study".
10th European Conference on Surface Science ECOSS 10.
Septiembre/1988.
Boloña, Italia.
- 41 PERVAN, P.; CASTRO, G.R.; WANDEL, K.
"Potassium Adsorption on Si(100)2x1".
American Vacuum Society National Symposium.
Octubre/1988.
Atlanta, Georgia, U.S.A.
- 42 CASTRO, G.R.; MARKERT, K.; PERVAN, P.; WANDEL, K.
"Adsorption von Sauerstoff auf Silizium bei 60 K: Vergleich Si(111)7x1 - Si(100)2x1".
Conferencia Anual de la Sociedad Alemana de Física (Tagung der Deutsche Physikalische Gesellschaft).
Abril/1989.
Münster, Germany .

- 43 ISERN, H.; CASTRO, G.R.; HEMMEN, R.; KORDESCH, M.E.; CONRAD, H.
 "Untersuchungen am Adsorptionssystem NiAl(110)/CO mittels UPS, LEED und Penningionisations-Elektronenspektroskopie (PIES): Charakterisierung des Adsorbates".
 Conferencia Anual de la Sociedad Alemana de Física (Tagung der Deutsche Physikalische Gesellschaft).
 Abril/1989.
 Münster, Germany .
- 44 HEMMEN, R.; CASTRO, G.R.; ISERN, H.; KORDESCH, M.E.; CONRAD, H.
 "Untersuchungen am NiAl(110) und NiAl(110)/CO mittels winkelaufgelöster UPS: NiAl(110) Valenzbandzustände".
 Conferencia Anual de la Sociedad Alemana de Física (Tagung der Deutsche Physikalische Gesellschaft).
 Abril/1989.
 Münster, Germany .
- 45 SCHNEIDER U.; ISERN, H.; STÖCKER, M.; CASTRO, G.R.; WANDEL, K.
 "2D-Phasenübergänge von Xe auf NiAl(110)".
 Conferencia Anual de la Sociedad Alemana de Física (Tagung der Deutsche Physikalische Gesellschaft).
 Marzo/1990.
 Regensburg, Germany .
- 46 SCHNEIDER U.; ISERN, H.; STÖCKER, M.; CASTRO, G.R.; WANDEL, K.
 "Xe-Wechselwirkung mit Al(110)".
 Conferencia Anual de la Sociedad Alemana de Física (Tagung der Deutsche Physikalische Gesellschaft).
 Marzo/1990.
 Regensburg, Germany .
- 47 MONDIO, G.; Neri, F.; STÖCKER, M.; CASTRO, G.R. WANDEL, K.
 "Surface Chemical Sensitivity of Reflection Energy Loss Spectra from Metal Surfaces"
 11th European Conference on Surface Science ECOSS 11.
 Octubre/1990.
 Salamanca, España.
- 48 CASTRO, G.R.; Isern, H.; SCHNEIDER U.; STÖCKER, M.; WANDEL, K.
 "Phase Transitions of Xenon Adsorbed on NiAl(110)".
 11th European Conference on Surface Science ECOSS 11.
 Octubre/1990.
 Salamanca, España.
- 49 CASTRO, G.R.; SCHNEIDER U.; ISERN, H.; STÖCKER, M.; WANDEL, K:
 "2D Transitions of Adsorbed Xenon on NiAl(110) and Al(110)".
 American Vacuum Society, 37th National Symposium.
 Octubre/1990.
 Toronto, Ontario, Canada.

- 50 CASTRO, G.R.; JANSSENS, T.; BUSSE, H.; SCHNEIDER, U.; WANDEL, K.
"CO Wechselwirkung mit der (111)-Oberfläche der geordneten Cu₃Pt Legierung".
Conferencia Anual de la Sociedad Alemana de Física (Tagung der Deutsche Physikalische Gesellschaft).
Abril/1991
Münster, Germany .
- 51 CASTRO, G.R.; DÜRR, H.; FAUSTER, Th.
"Unbesetzte elektronische Bandstruktur von NiAl(110)".
Conferencia Anual de la Sociedad Alemana de Física (Tagung der Deutsche Physikalische Gesellschaft).
Abril/1991
Münster, Germany .
- 52 JANSSENS, T.; CASTRO, G.R.; BUSSE, H.; SCHNEIDER, U.; WANDEL, K.
"Xe Adsorption auf CO/Rh(111)".
Conferencia Anual de la Sociedad Alemana de Física (Tagung der Deutsche Physikalische Gesellschaft).
Abril/1991
Münster, Germany .
- 53 SCHNEIDER, U.; CASTRO, G.R.; JANSSENS, T.; BUSSE, H.; MILUN, M.; WANDEL, K.
"Xe Adsorption auf Cu₃Pt"
Conferencia Anual de la Sociedad Alemana de Física (Tagung der Deutsche Physikalische Gesellschaft).
Abril/1991
Münster, Germany .
- 54 CASTRO, G.R.; BUSSE, H.; JANSSENS, T.; SCHNEIDER, U.; WANDEL, K.
"Electronical and geometrical structure of K adsorbed on Rh(111)".
International Workshop on Auger Spectroscopy and Electronic Structure IWASES-II
Septiembre/1991
Lund, Suecia.
- 55 JANSSENS, T.; CASTRO, G.R.; BUSSE, H.; SCHNEIDER, U.; WANDEL, K.
"Local Effects in the interaction of Potassium with Rh(111)"
12th European Conference on Surface Science ECOSS 12
Septiembre/1991
Estocolmo, Suecia.
- 56 SCHNEIDER, U.; CASTRO, G.R.; BUSSE, H.; JANSSENS, T.; WANDEL, K.
"Xe adsorption on the Cu₃Pt(111) Surface"
12th European Conference on Surface Science ECOSS 12
Septiembre/1991
Estocolmo, Suecia.

- 57 CASTRO, G.R.; SCHNEIDER, U.; BUSSE, H.; JANSSENS, T.; WANDEL, K.
 "The Interaction of CO with the Cu₃Pt(111) Surface"
 12th European Conference on Surface Science ECOSS 12
 Septiembre/1991
 Estocolmo, Suecia.
- 58 GRILLO, M.E.; CASTRO, G.R.; DOYEN, G.
 "Image Effects in the direct and inverse photoemission spectra of CO adsorbed on NiAl(110)"
 12th European Conference on Surface Science ECOSS 12
 Septiembre/1991
 Estocolmo, Suecia.
- 59 JANSSENS, T.; CASTRO, G.R.; BUSSE, H.; SCHNEIDER, U.; WANDEL, K.
 "Charakterisierung von K/Rh(111)-Oberflächen mit Photoemission von Ar, Kr, Xe"
 3. NRW Arbeitertreffen "Physik und Chemie von Oberflächen"
 Septiembre/1991
 Bonn, Germany
- 60 SCHNEIDER, U.; CASTRO, G.R.; BUSSE, H.; JANSSENS, T.; WANDEL, K.
 "Adsorption von CO auf Cu₃Pt(111)"
 3. NRW Arbeitertreffen "Physik und Chemie von Oberflächen"
 Septiembre/1991
 Bonn, Germany
- 61 SCHNEIDER, U.; JANSSENS, T.; BUSSE, H.; CASTRO, G.R.; WANDEL, K.
 "Der Einfluß der Oberflächenstruktur auf die CO Adsorption auf Cu₃Pt(111)"
 Conferencia Anual de la Sociedad Alemana de Física (Tagung der Deutsche Physikalische Gesellschaft).
 Marzo/1992
 Regensburg, Germany .
- 62 BUSSE, H.; JANSSENS, T.; SCHNEIDER, U.; CASTRO, G.R.; WANDEL, K.
 "Geometrische und elektronische Struktur von K auf Rh(111)"
 Conferencia Anual de la Sociedad Alemana de Física (Tagung der Deutsche Physikalische Gesellschaft).
 Marzo/1992
 Regensburg, Germany .
- 63 JANSSENS, T.; BUSSE, H.; SCHNEIDER, U.; CASTRO, G.R.; WANDEL, K.
 "Lokale Effekte in der Wechselwirkung von K auf Rh(111)"
 Conferencia Anual de la Sociedad Alemana de Física (Tagung der Deutsche Physikalische Gesellschaft).
 Marzo/1992
 Regensburg, Germany .
- 64 CASTRO, G.R.; SCHNEIDER, U.; BUSSE, H.; WANDEL, K.
 "Ex-situ Oberflächen-Charakterisierung einer Pt/Ru-Elektrode"
 Seminar: Brennstoffzellen für mobile-Systeme, Forschungszentrum Jülich- Universität Bonn
 Abril/1992
 Jülich, Germany .

- 65 CASTRO, G.R.; SCHNEIDER, U.; BUSSE, H.; WANDEL, K.
 "Cu₃Pt(111) als Modell einer Elektrode: Oberflächen-Charakterisierung und Wechselwirkung mit CO"
 Seminar: Brennstoffzellen für mobile Systeme, Forschungszentrum Jülich -Universität Bonn
 April/1992
 Jülich, Germany .
- 66 CASTRO, G.R.; BUSSE, H.; SCHNEIDER U.; WANDEL, K. and DALBEK, R.; IWASITA, T.; NART, F.C.; KRAUSE, M.; SCHMIDT, V.M.; VIELSTICH
 "Charakterisierung von Pt/Ru- Elektroskatalysatoren mit Hilfe elektrochemischer in-situ und oberflächenspektroskopischer ex-situ-Methoden".
 Jahrestagung Gesellschaft Deutscher Chemiker (GDCh)-Fachgruppe Angewandte Elektrochemie.
 Octubre/1992.
 Straßburg, Francia.
- 67 SCHNEIDER U.; CASTRO, G.R.; BUSSE, H.; and WANDEL, K.
 "Adsorption on ordered Cu₃Pt(111): Site selectivity".
 12th-International Vacuum Congress(IVC-12)/ 8th-International Conference on Solid Surface (ICSS-8).
 Octubre/1992.
 La Haya, Holanda.
- 68 CASTRO, G.R.; SCHNEIDER U.; ISERN, H.; BUSSE, H; GRILLO, M.E; DOYEN, G. and WANDEL, K:
 "Interaction of CO with NiAl(110) and Cu₃Pt(111): bonding mechanism".
 American Vacuum Society, 39th National Symposium.
 Noviembre/1992.
 Chicago, USA.
- 69 SCHNEIDER, U; LINKE, R.; BUSSE, H. BECKER, C.; SCHRÖDER,U.; CASTRO, G.R.; and WANDEL, K.:
 "Adsorption of H₂ and CO on the ordered Cu₃Pt(111) surface".
 Kolloquiums des SFB 334 "Wechselwirkungen in Molekülen".
 Marzo/1993.
 Bonn, Germany
- 70 SCHNEIDER U; LINKE R; BUSSE H; BECKER C; SCHRÖDER U; CASTRO GR; WANDEL, K.:
 "Adsorption of H₂ and CO on the ordered Cu₃Pt(111) surface".
 13th General conference of the Condensed Matter Division, European Physical Society.
 Marzo/Abril 1993.
 Regensburg, Germany
- 71 CASTRO GR; SCHNEIDER U; ISERN H; BUSSE H; GRILLO ME; DOYEN G; WANDEL K.:
 "CO chemisorption on ordered alloy surfaces: Experiment and theory".
 13th General conference of the Condensed Matter Division, European Physical Society.
 Marzo/Abril 1993.
 Regensburg, Germany

- 72 BECKER, C.; SCHRÖDER, U.; SCHNEIDER, U; BUSSE, H.; LINKE, R.; CASTRO, G.R.; and WANDEL, K.:
 "Study of the H₂/CO coadsorption system on the ordered Cu₃Pt(111) surface".
 13th General conference of the Condensed Matter Division, European Physical Society.
 Marzo/Abril 1993.
 Regensburg, Germany
- 73 WOLTER, H.; SCHICK, M.; KALKI, K.; CASTRO, G.R.; and WANDEL, K.:
 "Formation of thin epitaxial copper oxide layers on Ru(0001)".
 13th General conference of the Condensed Matter Division, European Physical Society.
 Marzo/Abril 1993.
 Regensburg, Germany
- 74 BUSSE, H.; SCHNEIDER, U.; LINKE R.; BECKER, C.; SCHRODER, U.; CASTRO, G.R.; and WANDEL, K.
 "Interaction of Hydrogen with Cu₃Pt(111): Dissociation Via Single Platinum Atoms"
 13th European Conference on Surface Science ECOSS 13
 Agosto/Septiembre 1993
 Warwick, Inglaterra.
- 75 BECKER, C.; SCHRODER, U.; SCHNEIDER, U.; BUSSE, H.; LINKE R.; CASTRO, G.R.; and WANDEL, K.
 "Lateral Interaction of H and CO coadsorbed on Cu₃Pt(111)"
 13th European Conference on Surface Science ECOSS 13
 Agosto/Septiembre 1993
 Warwick, Inglaterra.
- 76 CASTRO, G.R.; and DOYEN, G.
 "Chemisorption Mechanisms of CO on NiAl(110) and Cu₃Pt(111)"
 13th European Conference on Surface Science ECOSS 13
 Agosto/Septiembre 1993
 Warwick, Inglaterra.
- 77 JANSSENS, T.V.W.; CASTRO, G.R.; WANDEL, K., VANSANTEN, R.A. AND NIEMANTSVERDRIET, J.W.
 "Long and short range effect of alkali promoters on metal surfaces: K on Rh(111)"
 EUROPACAT-I Conference, E.N.S.C.M
 12-17/Septiembre/1993
 Montpellier, Francia
- 78 CASTRO, G.R.; SCHNEIDER, U.; BUSSE, H.; LINKE, R. AND WANDEL, K.
 "Adsorption and coadsorption of H₂ and CO on Cu₃Pt(111): a model catalyst"
 EUROPACAT-I Conference, E.N.S.C.M
 12-17/Septiembre/1993
 Montpellier, Francia

- 79 BUSSE, H.; HINAREJOS; J.J.; KANDLER, J.; MICHEL, E.G.; MIRANDA, R.; CASTRO, G.R.; WANDEL, K.
 "Kinetik der Sauerstoffadsorption auf Fe₃Si(100)".
 Frühjahrstagung der Deutschen Physikalischen Gesellschaft.
 March 1994.
 Münster, Germany.
- 80 KANDLER, J.; BUSSE, H.; SCHNEIDER, U.; CASTRO, G.R., WANDEL, K.
 "Wechselwirkung von CO mit Ni₃Al(111) im Vergleich mit Ni(111)".
 Frühjahrstagung der Deutschen Physikalischen Gesellschaft.
 March 1994.
 Münster, Germany.
- 81 CASTRO, G.R.; DOYEN, G.
 "Theoretische Begründung der verringerten Adsorptionsenergie von CO und H auf NiAl(110) und Cu₃Pt(111) im Vergleich zu den reinen Übergangsmetallkomponenten".
 Frühjahrstagung der Deutschen Physikalischen Gesellschaft.
 March 1994.
 Münster, Germany.
- 82 CASTRO, G.R.; DOYEN, D.
 "Adsorptionsplätze von atomarem Wasserstoff auf Cu₃Pt(111)".
 Frühjahrstagung der Deutschen Physikalischen Gesellschaft.
 March 1994.
 Münster, Germany.
- 83 CASTRO, G.R.; DOYEN, G.
 "Adsorption sites of atomic Hydrogen on Cu₃Pt(111)".
 14th General conference of the Condensed Matter Division, European Physical Society.
 March 1994.
 Madrid, Spain
- 84 GARCIA, J.M.; PASTOR, C.J.; ORTEGA, J.E.; HINAREJOS, J.J.; CHROST, J.; MICHEL, E.G.; CASTRO, G.R.; MIRANDA, R.
 "Hydrogen adsorption on epitaxial b-FeSi₂/Si(100) and single crystal b- FeSi₂(100)".
 14th General conference of the Condensed Matter Division, European Physical Society.
 Marzo/1994.
 Madrid, España
- 85 CHROST, J.; ORTEGA, J.E., ALVAREZ, J.; CASTRO, G.R.; MICHEL, E.G.
 "Electronic band structure of CoAl".
 14th General conference of the Condensed Matter Division, European Physical Society.
 Marzo/1994.
 Madrid, España
- 86 ALVAREZ, J.; CASTRO, G.R.; MICHEL, E.G., DAVILA, M.E.; ASENSIO, M.C.
 "Electronic structure of FeSi(100)".
 14th General conference of the Condensed Matter Division, European Physical Society.
 Marzo/1994.
 Madrid, España

- 87 BUSSE, H.; WANDEL, K.; HINAREJOS, J.J.; SEGOVIA, P.; CHROST, J.; MICHEL, E.G.; MIRANDA, R.; CASTRO, G.R.
"An ISS/UPS study of the oxidation of Fe₃Si(100) and b-FeSi₂(100)".
14th General conference of the Condensed Matter Division, European Physical Society.
March 1994.
Madrid, Spain
- 88 CASTRO, G.R.; DOYEN, G.
"Why does the Adsorption energy of CO and H on NiAl(110) and Cu₃Pt(111) decrease compared to the pure transition metal components?".
14th General conference of the Condensed Matter Division, European Physical Society.
Marzo/1994.
Madrid, España
- 89 BUSSE, H.; WANDEL, K., CASTRO, G.R.
"CO Adsorption on a Fe₃Si(100) single crystal surface"
14th European Conference on Surface Science ECOSS 14
September 1994
Leipzig, Germany.
- 90 CASTRO, G.R.; DOYEN, G.
"Why does the Adsorption energy of CO and H on NiAl(110) and Cu₃Pt(111) decrease compared to the pure transition metal components?".
14th European Conference on Surface Science ECOSS 14
September 1994
Leipzig, Germany.
- 91 HINAREJOS, J.J.; ODASSO, S.; SEGOVIA, P.; ALVAREZ, J.; CASTRO, G.R.; MICHEL, E.G.; MIRANDA, R.
"Electronic band structure of epitaxial $\sqrt{3}\times\sqrt{3}$ -R30° e-FeSi/Si(111)".
Frühjahrestagung der Deutschen Physikalischen Gesellschaft.
March 1995.
Berlin, Germany.
- 92 HINAREJOS, J.J.; SEGOVIA, P.; ALVAREZ, J.; CASTRO, G.R.; MICHEL, E.G.; MIRANDA, R.
"Electronic band structure of metastable epitaxial iron silicides grown on Si(111)".
Frühjahrestagung der Deutschen Physikalischen Gesellschaft.
March 1995.
Berlin, Germany
- 93 CASTRO, G.R.; DOYEN, G.; DRAKOVA, D.; GRILLO, M.E.
"Zur Natur der Chemisorptionsbindung: H auf Al, NiAl und Cu".
Frühjahrestagung der Deutschen Physikalischen Gesellschaft.
March 1995.
Berlin, Germany.

- 94 HINAREJOS; J.J.; CASTRO, G.R.; MIRANDA, R.
 "Katalytische Si-Oxidation mit Log(Dosis)-Abhängigkeit: Fe₃Si(100)".
 Frühjahrstagung der Deutschen Physikalischen Gesellschaft.
 March 1995.
 Berlin, Germany.
- 95 SEGOVIA, P.; CHROST, J.; ORTEGA, J.E.; ALVAREZ, J.; MICHEL, E.G. CASTRO, G.R.
 "Angle resolved Photoemission of the CoAl(110)-1x1 Surface".
 Frühjahrstagung der Deutschen Physikalischen Gesellschaft.
 March 1995.
 Berlin, Germany.
- 96 CASTRO, G.R.; BLUM, V.; RATH, C.; KOTTCKE, M.; HAMMER, L.; HEINZ, K.
 "Stöchiometrie und Oberflächenstruktur von CoAl(110)".
 Frühjahrstagung der Deutschen Physikalischen Gesellschaft.
 Marzo/1995.
 Berlin, Germany.
- 97 BEUTL, M.; RENDULIC, K.D.; CASTRO, G.R.
 "Adsorption Dynamics of CO on a NiAl(110) Surface"
 3S 95 Symposium on Surface Science
 Abril/1994
 Karprum, Austria.
- 98 SEGOVIA, P.; CASTRO, G.R.; MASCARAQUE, A.; PRIETO, P.; KIM, H.J. and MICHEL, E.G.
 "K/Si(100)2x1 electronic structure by angle-resolved photoemission"
 Europhysics conference abstracts **20F** (1996)
- 99 MAYER, D.; WILLERDING, B.; WANDEL, K. and CASTRO, G.R.
 "Relativistic calculations of photoemission spectra from ordered alloys: application to CoAl(110)"
 Europhysics conference abstracts **20F** (1996)
100. CASTRO, G.R.
 "Electronic structure of alloy surfaces: relation between reactivity and electronic structure"
 L'Atelier "Soleil" de l'arc Méditerranéen
 Noviembre/1995
 Marsella, Francia
101. CASTRO, G.R.
 "Electronic and structural effects in atomic hydrogen chemisorptions on alloy surfaces: chemisorptions mechanisms"
 Hydrogen in Solids and at Solid Surfaces: Present Status and Future Trends
 Junio/1996
 Ilmenau, Germany

102. CASTRO, G.R.
 “Posibilidades presentes y futuras para los usuarios españoles de radiación X en las instalaciones del laboratorio europeo de radiación sincrotrón – ESRF”
 X Symposium del Grupo Especializado de Cristalografía de las Reales Sociedades Españolas de Física y Química”
 Junio/1998
 Andorra La Vella
103. CASTRO, G.R.
 “Spanish X-Ray Beamline for absorption and diffraction”
 The 6th International Conference on Synchrotron Radiation Instrumentation
 Agosto/1997
 Himeji, Japan
104. CASTRO, G.R.
 “Monochromator crystal cooling system”
 Optics on bending magnet beamlines
 April 1998
 ESRF, Grenoble, France
105. CASTRO, G.R.
 “Focusing techniques and performances”
 Optics on bending magnet beamlines
 April 1998
 ESRF, Grenoble, France
106. CASTRO, G.R. and BIKONDOA, O.
 “Parametric Study of Performance of the vertical Focusing for the Spline beamline at the ESRF”
 Second Workshop on “Methods and Applications of Curved X-Ray Optics”
 October 1999
 Weimar, Germany
107. CASTRO, G.R.
 “A Sagittal Focusing Double Crystal Monochromator for the Spline beamline at the ESRF”
 Second Workshop on “Methods and Applications of Curved X-Ray Optics”
 October 1999
 Weimar, Germany
108. O. Bikondoa, X. Torrelles, F. Wendler, W. Moritz , **G.R. Castro**
 “An X-ray and LEED investigation of the oxidation of NiAl (110) surface”
 19th European Crystallographic Conference, ECM 19
 August 2000
 Nancy, France
109. **G.R. Castro**
 “A Sagittal focusing double-crystal X-ray Monochromator for the SpLine Beamline at the ESRF”
 7th International conference on synchrotron radiation instrumentation SRI2000
 August 2000
 Berlin, Germany

110. O. Bikondoa, X. Torrelles, F. Wendler, W. Moritz , **G.R. Castro**
 “Study of the Al₂O₃/NiAl (110) surface by LEED and surface X-ray diffraction”
 19th European Conference on Surface Science, ECOSS19
 September 2000
 Madrid, Spain
111. O. Bikondoa, X. Torrelles, F. Wendler, W. Moritz , **G.R. Castro**
 “Oxidation von NiAl(110)- and Ni₃Al(111)-Oberflächen untersucht mit Elektronen- und Röntgenbeugung”
 Deutsche Gesellschaft für Kristallographie 9. Jahrestagung
 March 2001
 Bayreuth, Germany
112. O. Bikondoa, X. Torrelles, F. Wendler, W. Moritz, **G.R. Castro**
 “Oxidation der Ni₃Al(111) Oberflächen mit SPA-LEED und Röntgenbeugung”
 Deutsche Physikalische Gesellschaft Frühjahrstagungen 2001 Fachverband
 Oberflächenphysik
 March 2001
 Hamburg, Germany
113. O. Bikondoa, X. Torrelles, F. Wendler, W. Moritz y **G.R. Castro**
 “Study of the Al₂O₃/Ni₃Al(111) Surface by X-ray Surface Diffraction and LEED”
 European Materials Research Society – 2002 Spring Meeting: “Growth and Evolution of
 Ultra thin Films: Surface and Interface
 July 2002
 Strasbourg, France
114. J. Rubio-Zuazo, **G.R. Castro**.
 “Implementation of High Energy X-Ray Photoelectron Spectroscopy (HE-XPS) (10-20
 KeV) at the Spanish beamline (SpLine) at the ESRF”
 International Workshop on Hard X-ray Photoelectron Spectroscopy
 September 2003
 Grenoble, France
115. J. Rubio-Zuazo, **G.R. Castro**.
 “First principle study of the properties of a Cylindrical Mirror Analyzer: Complete
 calculation of the electron trajectory”.
 International Workshop on Hard X-ray Photoelectron Spectroscopy
 September 2003
 Grenoble, France
116. J. Rubio-Zuazo, **G.R. Castro**.
 “Numerical simulation of the Cylindrical Mirror Analyzer: Case of an extended source”
 International Workshop on Hard X-ray Photoelectron Spectroscopy
 September 2003
 Grenoble, France

117. J. Rubio-Zuazo, A. de Andrés, S. Taboada, C. Prieto, J.L. Martínez **G.R. Castro**.
 “Strain study of ultra thin epitaxial films of $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ thin films on $\text{SrTiO}_3(100)$ ”
 8th European Conference on Surface and Crystallography and Dynamics, ECSCD8
 July 2004
 Segovia, Spain
118. J. Rubio-Zuazo, A. de Andrés, S. Taboada, C. Prieto, J.L. Martínez **G.R. Castro**.
 “Strain correlation between Atomic Structure and Magnetic properties of $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$
 thin films grown on $\text{SrTiO}_3(100)$ ”
 8th European Conference on Surface and Crystallography and Dynamics, ECSCD8
 July 2004
 Segovia, Spain
119. O. Bikondoa, X. Torrelles, F. Wendler, W. Moritz y **G.R. Castro**
 “Structure of the thin aluminium oxide film on $\text{Ni}_3\text{Al}(111)$ ”
 ICSOS 8 – 8th International Conference on the Structure of Surfaces
 July 2005
 Munich, Germany
120. I. Mata, A. López, **G.R. Castro**
 “Estudio de intercaras sólido-líquido por radiación sincrotrón en complejos de cobre con
 aminoácidos”
 XXX Reunión Bienal de la RSEQ
 September 2005
 Lugo, Spain
121. J. Rubio-Zuazo, M. Merkel, M. Escher, **G.R. Castro**.
 “Hard X-Ray Photoelectron (HAXPES) ($\leq 15\text{keV}$) at SpLine, the Spanish CRG beamline at
 the ESRF”
 BESSY Users’ Meeting
 December 2005
 Berlin, Germany
122. J. Rubio-Zuazo, M. Escher, M. Merkel, **G.R. Castro**.
 “An Energy Analyzer for Hard X-ray Photoelectron Spectroscopy”
 10th Seminar-Recent Trends in Charged Particle Optics and Surface Physics Instrumentation
 May 2006
 Brno, Czechoslovakia
123. J. Rubio-Zuazo, M. Merkel, M. Escher, **G.R. Castro**.
 “Hard X-Ray Photoelectron (HAXPES) ($\leq 15\text{keV}$) at SpLine, the Spanish CRG beamline at
 the ESRF”
 BESSY Users’ Meeting
 December 2006
 Berlin, Germany
124. Ana Gutierrez-Leon, Corina Solis, Ricardo Sánchez-Hernández, Jasinto Robles-Camacho,
 Janis Rojas-Gaytán, Manolo Sanchez del Rio, Juan Rubio-Zuazo, **G.R. Castro**
 “Synchrotron powder diffraction on Aztec blue pigments”
 Synchrotron radiation in Art and Archaeology, SR2A
 September 2006
 Berlin, Germany

125. J. Rubio-Zuazo, **G.R. Castro**.
 “Structural, electronic and chemical properties by simultaneous combination of X-Ray diffraction (SXRD) and Hard X-Ray Photoelectron Spectroscopy (HAXPES, up to 15KeV)”
 European Materials Research Society E-MRS Fall Meeting 2006
 September 2006
 Berlin, Germany
126. J. Rubio-Zuazo, **G.R. Castro**.
 “Subshell ionization cross-section on Cu, Ag and Au in the photon energy range 7-22KeV”
 2nd International Workshop on Hard X-ray Photoelectron Spectroscopy-HAXPES2006
 September 2006
 SPring-8 Hyogo, Japan
127. J. Rubio-Zuazo, **G.R. Castro**.
 “Mean free path and effective attenuation length dependency with the photoelectron kinetic energy on Au: from 1 KeV to 15 KeV”
 2nd International Workshop on Hard X-ray Photoelectron Spectroscopy-HAXPES2006
 September 2006
 SPring-8 Hyogo, Japan
128. J. Rubio-Zuazo, M. Escher, M. Merkel, **G.R. Castro**.
 “A Novel Electron Energy Analyzer for both Surface and Bulk Sensitive Photoelectron Spectroscopy up to 15 keV Kinetic Energy”
 2nd International Workshop on Hard X-ray Photoelectron Spectroscopy-HAXPES2006
 September 2006
 SPring-8 Hyogo, Japan
129. J. Rubio-Zuazo, **G.R. Castro**.
 “An Energy analyzer for Surface and Bulk Sensitive Photoelectron Spectroscopy”
 24th European Conference on Surface Science - ECOSS24
 September 2006
 Paris, France
130. J. Rubio-Zuazo, G.R.Castro, M.Escher, R.Oiwa. Oral communication: R.Oiwa.
 “Hard X-ray Photoelectron Spectroscopy (HAXPES) (≤ 15 keV) at SpLine, the Spanish CRG Beamline at the ESRF: First Results”
 3rd Division Symposium “Frontier of Synchrotron Radiation Surface Science”. December 2007.
 Tokyo, Japan.
131. A.Gutiérrez-León, J.Rubio-Zuazo, G.R.Castro. Poster.
 “Caracterización de fragmentos cerámicos y determinación de aspectos tecnológicos en el yacimiento Los Rosales –C/Calcio (Villaverde Bajo, Madrid). Primeros resultados”
 VII Congreso Ibérico de Arqueometría.
 October 2007
 Madrid, Spain.

132. R. Berzosa del Campo, A. Gutiérrez-León, J. Rubio-Zuazo, **G.R. Castro**. Poster.
 “Estudio arqueométrico de aplicaciones minerales con fines simbólicos en comunidades primitivas de la Comunidad de Madrid”
 VII Congreso Ibérico de Arqueometría.
 October 2007
 Madrid, Spain.
133. A.Gutiérrez-León, J.Rubio-Zuazo, G.R.Castro. Oral communication: J.Rubio-Zuazo.
 “Línea española (SpLine) de radiación sincrotrón. Posibles aplicaciones en Arqueometría”
 VII Congreso Ibérico de Arqueometría.
 October 2007
 Madrid, Spain
134. J.Rubio-Zuazo, G.R.Castro. Oral communication: J.Rubio-Zuazo.
 “Non-destructive depth profile analysis in the tens nanometer scale by combination of Surface X-ray Diffraction and Hard X-ray Photoelectron Spectroscopy”
 III Reunión de Usuarios Españoles de Radiación Sincrotrón.
 July 2007
 Jaca, Spain.
135. M. Sánchez del Rio, A.Gutiérrez-León, G.R. Castro, J.Rubio-Zuazo, C.Solís, R.Sánchez-Hernández, J.Robles-Camacho, J.Royas-Gaytán. Poster.
 “Aztec blue pigments characterization by Synchrotron X-Ray Powder Diffraction”
 III Reunión de Usuarios Españoles de Radiación Sincrotrón.
 July 2007
 Jaca, Spain
136. J. Rubio-Zuazo, **G.R. Castro**. Oral communication: J. Rubio-Zuazo.
 “Non-destructive electronic, compositional and structural depth profile in tens nanometers scale of multilayer system by means of HAXPES and SXD: selected examples”
 17th International Vacuum Congress (ICV17).
 July 2007
 Stockholm, Sweden.
137. J. Rubio-Zuazo, **G.R. Castro**, M. Escher, M. Merkel. Poster.
 “Hard X-ray photoelectron spectroscopy (HAXPES) (≤ 15 keV) at SpLine, the spanish CRG beamline at the ESRF: First results”
 17th International Vacuum Congress (ICV17).
 July 2007
 Stockholm, Sweden
138. J. Rubio-Zuazo, E. Martinez, P. Batude, L. Clavelier, A. Chabli, **G.R. Castro**. Poster.
 “Hard X-ray photoemission experiments on novel Ge-based metal gate / high-k stacks”
 International Conference on Frontiers of Characterization and Metrology for Nanoelectronics NIST.
 March 2007
 Maryland, USA.

139. J. Rubio-Zuazo, E. Martinez, P. Batude, L. Clavelier, A. Chabli, **G.R. Castro**. Poster.
 “Probing buried interfaces on Ge-based CMOS stacks by Hard X-ray Photoelectron Spectroscopy”
 Workshop on nanoscale materials.
 January 2007
 Grenoble, Francia
140. J.Rubio-Zuazo, G.R.Castro. Oral communication: G.R.Castro.
 “Hard X-Ray Photoelectron Spectroscopy up to 15keV: A novel tool for non-destructive characterization of bulk and buried interfaces”.
 14th International Conference on Thin Films & Reactive Sputter Deposition 2008.
 November 2008
 Ghent, Belgium.
141. M.Merkel, J. Rubio-Zuazo, G.R.Castro. Oral communication: M.Merkel.
 “Hard X-ray Photoelectron Spectroscopy up to 15 keV: State-of-the-Art and Recent Results”
 American Vacuum Society (AVS) 55th International Symposium. From Nano to Astronomical: The Science & Technology of Materials, Interfaces, & Processing.
 Synchrotron-based Spectroscopy and Spectro-Microscopy Topical Conference.
 October 2008
 Boston, USA.
142. J.Rubio-Zuazo, G.R.Castro. Oral communication: G.R.Castro.
 “Hard X-Ray Photoemission activities in the SpLine Project at the ESRF”
 Workshop on Hard X-Ray Photoemission in Materials Science. Recent Progress and Future Directions. Advanced Light Source at the Lawrence Berkeley National Laboratory
 October 2008
 Berkeley, USA.
143. C.Elmi, M.F.Brigatti, D.Malferrari, G.Valdrè, **G.R. Castro**, J.Rubio-Zuazo. Oral communication: C.Elmi.
 “Clinoclone structure and its surface interactions with organic molecules”
 1st simposium-AIC Joint meeting, Sestri-Levante (GE).
 September 2008
 Genova, Italy.
144. P.Ferrer, J.Rubio-Zuazo, G. R.Castro. Poster.
 “Au thin layer in a bulk Cu matrix studied by Hard X-ray photoelectron spectroscopy (HAXPES)”
 Higher European Research Course for Users of Large Experimental Systems (HERCULES 2008). CNRS and Université Joseph Fourier.
 Grenoble, France
145. F.Jiménez-Villacorta, E.Céspedes, M.Vila, A.Muñoz-Martín, G.R.Castro, C. Prieto. Poster.
 “Local order and electronic structures at the interface in metal-insulator Fe / Si₃N₄ multilayers”
 Higher European Research Course for Users of Large Experimental Systems (HERCULES 2008), CNRS and Université Joseph Fourier.
 Grenoble, France.

146. A.Gutiérrez-León, J.Rubio-Zuazo, S.Petrick Casagrande, G.R.Castro. Poster.
“Análisis no destructivos sobre cerámicas arqueológicas. Difracción de polvo y Fluorescencia de Rayos-X con ángulo de incidencia rasante y radiación sincrotrón”
VIII Congreso Ibérico de Arqueometría.
October 2009
Teruel, Spain
147. P.Ferrer, J.Rubio-Zuazo, **G.R. Castro**. Poster.
“Surface atomic structure of Zn-Histidine complex”
10th International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures (ACSIN10).
Septiembre 2009
Granada, Spain
148. J.Rubio-Zuazo, N.Weber, M.Escher, M. Merkel, **G.R. Castro**. Oral communication:
J.Rubio-Zuazo.
“Development of a 2D event counting detector for the SpLine HAXPES analyzer: towards high resolution and energy XPS”
IV Reunión de Usuarios Españoles de Radiación Sincrotrón.
September 2009
Cerdanyola del Valles, Spain.
149. J.A.Gallastegui, F.Jiménez-Villacorta, I.da Silva, C.Cohen, J.Rubio-Zuazo, **G.R. Castro**.
Oral communication: J.A.Gallastegui.
“Multi-elements-Si(Li) solid state X-ray detector, for X-ray absorption spectroscopy at SpLine”
IV reunión de la asociación de usuarios de sincrotrón de España (AUSE)
September 2009
Cerdanyola del Vallés, Spain.
150. A.Gutiérrez-León, J.Rubio-Zuazo, S.Petrick Casagrande, **G.R. Castro**. Poster.
“Elemental analysis on Nazca pottery and pigments by synchrotron-energy-dispersive-X-ray (EDX) and X-ray photoelectron (XPS) spectroscopies”
IV Reunión de Usuarios Españoles de Radiación Sincrotrón.
Septiembre 2009
Cerdanyola del Valles, Spain.
151. C.Elmi, M.F.Brigatti, D.Malferrari, G.R.Castro, P.Ferrer, J.Rubio-Zuazo.
“Relationship between bulk and surface structure of muscovite”,
7° Forum Italiano di Scienze della Terra.
September 2009,
Rimini, Italy.
152. P.Ferrer, J.Rubio-Zuazo, **G.R. Castro**. Poster.
“Surface Atomic Structure Study of Cu-Alanine complex”
26th European Conference on Surface Science (ECOSS26).
August-September 2009
Parma, Italy.

153. P.Ferrer, J.Rubio-Zuazo, M.E.Medina, F.Jiménez-Villacorta, G.R.Castro. Poster.
“pH dependence of the electronic structure of metal-aminoacid (Cu, Zn) complexes in aqueous solution”
XIV International Conference on X-ray Absorption Fine Structure (XAFS-14).
July 2009
Camerino, Italy.
154. P.Ferrer, J.Rubio-Zuazo, F.Jiménez-Villacorta, G. R.Castro. Oral communication: P.Ferrer.
“Síntesis y caracterización estructural de complejos de Zn-Histidina: variación del entorno químico en función del pH”
II Reunión Científica de La Factoría.
July 2009
Santander, Spain.
155. J.A.Gallastegui, J.M.Delgado, J.Rubio-Zuazo, G.R.Castro, Poster
“Implementation of a versatile magneto-optical Kerr effect (MOKE) system, compatible with the beamline set-up and sample preparation laboratory”
Higher European Research Course for Users of Large Experimental Systems (HERCULES 2009).
Grenoble, France.
156. I.da Silva, **G.R. Castro**. Poster.
"Growth of crystalline SiO₂ layer on a Fe₃Si(100) substrate"
Higher European Research Course for Users of Large Experimental Systems (HERCULES 2009). CNRS and Université Joseph Fourier.
Grenoble, France.
157. J.A. Gallastegui, F. Jiménez-Villacorta, I.da Silva, C.Cohen, J.Rubio-Zuazo, G. R Castro. Poster.
“Multi-elements Si(Li) solid state X-ray detector for X-ray absorption spectroscopy at SpLine”.
HERCULES XX symposium
March 2010
Grenoble, France.
158. Juan Rubio-Zuazo and **G.R. Castro**. Poster.
“Breakdown of the dipole approximation and determination of individual sub-shell cross-section for hard X-rays”.
VUVX2010, the 37th International conference on Vacuum Ultraviolet and X-ray Physics.
July 11-16, 2010,
Vancouver, BC, Canada.
159. P.Ferrer, Juan Rubio-Zuazo and **G.R. Castro**. Poster.
“Study of Solid/liquid and solid/gas interfaces in Cu-Alanine complex by surface X-ray diffraction”
SXNS11, The Eleventh International Conference on Surface X-ray and Neutron Scattering.
July 13 - 17, 2010
Northwestern University, Evanston, Illinois, USA.

160. P.Ferrer, Juan Rubio-Zuazo and **G.R. Castro**. Poster.
 “Study of Solid/liquid and solid/gas interfaces in Cu-Alanine complex by surface X-ray diffraction”
 11th International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures
 October 3-7, 2011
 St. Petersburg, Russia
161. P.Ferrer, Juan Rubio-Zuazo and **G.R. Castro**. Oral communication: J. Rubio-Zuazo.
 “Correlation between the magnetoresistance behaviour, crystallographic properties and oxygen vacancies of La_{0.7}Ca_{0.3}MnO₃ thin films”
 11th International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures
 October 3-7, 2011
 St. Petersburg, Russia
162. P.Ferrer, Juan Rubio-Zuazo and **G.R. Castro**. Oral communication: P.Ferrer
 “Correlation between crystallographic structure and transport properties as a function of oxygen vacancies in La_{0.7}Ca_{0.3}MnO₃ thin film”
 ECOSS28: 28th European Conference on Surface Science
 August 28 September 2, 2011
 Wroclaw, Polen
163. P. O. Persson, E. Lind, J. Rubio-Zuazo, **G. R. Castro**, E. Lundgren, L.-E. Wernersson, A. Mikkelsen, and R. Timm. Poster.
 “Characterization of InAs-based metal-oxide-semiconductor stacks using HAXPES”
 HAXPES 2011 – 4th International Workshop on Hard X-ray Photoelectron Spectroscopy
 14-16 September 2011
 Hamburg, Germany
164. J. Rubio-Zuazo, L. Onandia, P. Ferrer, I. Madariaga, **G.R. Castro**
 “Correlation between the transport properties, atomic structure and oxygen vacancies of La_{0.7}Ca_{0.3}MnO₃ thin films”.
 ICSFS16 International Conference on Solid Films and Surfaces. .
 1–6 July 2012
 Genoa, Italy
165. Laura Onandia, **German R. Castro** and Juan Rubio Zuazo: Oral contribution Laura Onandia
 “Correlation between the Verwey transition temperature, growth conditions and epitaxial strain on single phase Fe₃O₄ thin films”.
 ICSFS16 International Conference on Solid Films and Surfaces.
 1–6 July 2012
 Genoa, Italy
166. J Rubio-Zuazo, M. Escher, N. Weber, M. Merkel and **G R Castro**.
 “A Two-dimensional event-counting detector for HV-CSA electrostatic analyzer at SpLine the Spanish CRG beamline at the ESRF”.
 SRI2012 The 11th International Conference on Synchrotron Radiation Instrumentation.
 9–13 July 2012.
 Lyon, France.

167. J. Rubio-Zuazo, Victor Collado-Negro, C. Heyman, Pilar Ferrer, Iván da Silva, J.A. Gallastegui, A. Gutiérrez-León and **G. R. Castro**.
 “A double crystal X-ray monochromator for the SpLine diffraction and absorption synchrotron bending magnet beamline at the ESRF”.
 SRI2012 The 11th International Conference on Synchrotron Radiation Instrumentation.
 9–13 July 2012.
 Lyon France.
168. A. Gutiérrez-León, C. Heyman, J. Rubio-Zuazo and **G. R. Castro**.
 “Development of an on-axis-visualization stage to observe and align sample with an x-ray
 SRI2012 The 11th International Conference on Synchrotron Radiation Instrumentation.
 9–13 July 2012.
 Lyon, France.
169. P Ferrer, I da Silva, C Heyman, J Rubio-Zuazo and **G R Castro**: Oral contribution Pilar Ferrer
 “A portable powder-liquid high corrosion-resistant reaction cell for in situ X-ray diffraction and absorption studies of heterogeneous powder-liquid reactions and phase transformations”.
 SRI2012 The 11th International Conference on Synchrotron Radiation Instrumentation.
 9–13 July 2012.
 Lyon ,France.
170. Rubio-Zuazo, C Heyman , F. Esteban and **G R Castro**: Poster Pilar Ferrer
 “A multipurpose ultra-high vacuum-compatible chamber for in situ X-ray surface scattering studies over a wide range of temperature and pressure environment conditions”.
 SRI2012 The 11th International Conference on Synchrotron Radiation Instrumentation.
 9–13 July 2012.
 Lyon ,France.
171. J. Rubio-Zuazo, and **G. R. Castro**, Oral comunication: G.R. Castro
 “Beyond Hard X-ray Photoelectron Spectroscopy: simultaneous combination with X-ray diffraction”
 59th AVS International Symposium and Exhibition
 28 October -2 November 2012
 Tampa, FL, USA
172. J. Rubio-Zuazo, and **G. R. Castro**, Oral comunication: G.R. Castro.
 “Experimental Effective Attenuation Length for applications in Hard X-ray photoelectron spectroscopy”
 71 IUVESTA Workshop on Characterisation of Nanostructures by means of Electron Beam Techniques.
 24 - 28, June 2013
 Castle Herrnstein, Austria
173. J. Rubio-Zuazo, L. Onandia, P. Ferrer, I. Madariaga, G.R. Castro
 “Correlation between the transport properties, atomic structure and oxygen vacancies of La_{0.7}Ca_{0.3}MnO₃ thin films”.
 5th International conference on hard X-ray photoelectron spectroscopy
 June 17-20, 2013
 Uppsala, Sweden

174. J. Rubio-Zuazo, and **G. R. Castro**, Oral communication: G.R. Castro.
“Effective Attenuation Length EAL dependency on kinetic energy for titanium nitride (TiN), hafnium oxide (HfO₂), silicon (Si), silicon dioxide (SiO₂), lanthanum lutetium oxide (LaLuO₃), lanthanum calcium manganite (La_{0.66}Ca_{0.33}MnO₃), and gold (Au) from 1 keV up to 15 keV”
60th AVS International Symposium and Exhibition
27 October -1 November 2013
Long Beach, CA, USA
175. J. Rubio-Zuazo, Alicia de Andres and **G. R. Castro**, Oral communication: G.R. Castro.
“Understanding the origin of the dead-layer at the La_{0.66}Ca_{0.33}MnO₃/SrTiO₃ Interface: a Grazing incidence X-ray Diffraction and Hard X-ray Photoelectron Spectroscopy study”
60th AVS International Symposium and Exhibition
27 October -1 November 2013
Long Beach, CA, USA