Complete list of publications for C. N. Borca:

Book chapters:

*Magnetic and electronic structure modifications induced by surface segregation in La$_{0.65}$Pb$_{0.35}$MnO$_3$ thin films*
C.N. Borca, Hae-Kyung Jeong and Takashi Komesu

*Processing and properties of thin manganite films*
S. Canulescu, C.N. Borca, M. Döbeli, P. Schaf, T. Lippert and A. Wokaun

*Surface Segregation and Compositional Instability at the Surface of the Half Metallic Ferromagnets and Related Compounds*
Hae-Kyung Jeong, A.N. Caruso, C.N. Borca

*The Possible Influence of Magnetic Ordering on Segregation in Ternary Alloys: TiCoSb and NiMnSb*
A.N. Caruso and C.N. Borca

Peer-reviewed journal articles:

*Selenium redox speciation and coordination in high-burnup UO2 fuel: Consequences for the release of 79Se in a deep underground repository,*
Enzo Curti, Annick Froideval-Zumbiehl, Ines Günther-Leopold, Matthias Martin, Andrej Bullemer, Hanspeter Linder, Camelia N. Borca, Daniel Grolimund,

*Local atomic structure of chromium bearing precipitates in chromia doped uranium dioxide investigated by combined micro-beam X-ray diffraction and absorption spectroscopy,*
G. Kuri, C. Mieszczynski, M. Martin, J. Bertsch, C.N. Borca, Ch. Delafoy,

*Band gap structure modification of amorphous anodic Al oxide film by Ti-alloying*

*Microanalytical X-ray Imaging of Depleted Uranium Speciation in Environmentally Aged Munitions Residues*
Environmental Science and Technology 48 1467-1474 (2014)
Anisotropic diffusion at the field scale in a 4-year multi-tracer diffusion and retention experiment - I: Insights from the experimental data
Thomas Gimmi, Olivier Leupin, Jost Eikenberg, M.A. Glaus, L. van Loon, H.N. Waber, P. Wersin, HAO Wang, D. Grolimund, C.N. Borca, S. Denwock, C. Wittebroot
Geochimica et Cosmochimica Acta 125 373-393 (2014)

Irradiation effects and micro-structural changes in large grain uranium dioxide fuel investigated by micro-beam X-ray diffraction
C. Mieszczynski, G. Kuri, C. Degueldre, et al.

Beam-induced oxidation of monomeric U(IV) species
Alessi DS, Uster B, Borca CN, Grolimund D, Bernier-Latmani R

Remediation of soils contaminated with particulate depleted uranium by multi stage chemical extraction
Crean DE, Livens FR, Sajih M, Stennett MC, Grolimund D, Borca CN, Hyatt NC

Microstructure of as-fabricated UMo/Al(Si) plates prepared with ground and atomized powder

{[110] slip with {[112] slip traces in bcc Tungsten}
Marichal Cecile, Van Swygenhoven Helena, Van Petegem Steven, Borca Camelia
Scientific Reports 3 2547 (2013)

Curium analysis in plutonium uranium mixed oxide by x-ray fluorescence and absorption fine structure spectroscopy
C. Degueldre, C. Borca, C. Cozzo
Talanta 115 986 (2013)

Fast Chemical Imaging at High Spatial Resolution by Laser Ablation Inductively Coupled Plasma Mass Spectrometry
Analytical Chemistry 85 10107-10116 (2013)

X-ray absorption in plutonium uranium mixed oxide fuel: Thorium characterization
C. Cozzo, A. Orlov, C. Borca, C. Degueldre
Progress in Nuclear Energy (2013); http://dx.doi.org/10.1016/j.pnucene.2013.09.009

Non-vacuum deposition of Cu(In,Ga)Se₂ absorber layers from binder free, alcohol solutions
A micro-XAS/XRF and thermodynamic study of Ce III/IV speciation after long-term aqueous alteration of simulated nuclear waste glass: Relevance for predicting Pu behavior?
E. Curti, D. Grolimund, C.N. Borca
Applied Geochemistry 27 56-63 (2012)

Experimental and ab initio investigations of the x-ray absorption near edge structure of orthorhombic LuMnO$_3$

Slip in directionally solidified Mo-alloy micropillars - Part I: Nominally dislocation-free pillars
Acta Materialia 60 4604 (2012)

Slip in directionally solidified Mo-alloy micropillars-Part II: Pillars containing defects
J. Zimmermann, H. Van Swygenhoven, S. Van Petegem, C. Borca
Acta Materialia 60 4614 (2012)

Investigation of irradiated uranium-plutonium mixed oxide fuel by synchrotron based micro X-ray diffraction
C. Mieszczynski, C. Degueldre, G. Kuri, J. Bertsch, C.N. Borca
Progress in Nuclear Energy 57 130 (2012)

A high-repetition rate scheme for synchrotron-based picosecond laser pump/x-ray probe experiments on chemical and biological systems in solution
Review of Scientific Instruments 82, 063111 (2011)

The influence of Cr-composition on the local magnetic structure of FeCr alloys

Analytical Chemistry 83, 6259 (2011)

Combined neutron and synchrotron X-ray microprobe analysis: attempt to disclose 3600 years-old secrets of a unique bronze age metal artifact
Journal of Analytical Atomic Spectrometry 26, 1012 (2011)
Spatial distribution of arsenic and heavy metals in willow roots from a contaminated floodplain soil measured by X-ray fluorescence spectroscopy
Dana Zimmer, Jens Kruse, Christel Baum, Camelia Borca, Michael Laue, Gerd Hause, Ralph Meissner, Peter Leinweber
Science of the Total Environment 409, 4094 (2011)

Plutonium–uranium mixed oxide characterization by coupling micro-X-ray diffraction and absorption investigations
C. Degueldre, M. Martin, G. Kuri, D. Grolimund, C. Borca
Journal Nuclear Materials 416, 142 (2011)

Investigating the structure of iron-chromium alloys using synchrotron based X-ray microanalysis
A. Idhil, C.N. Borca, A.-C. Uldry, M. Victoria, M. Samaras

Polarization-specific adsorption of organic molecules on ferroelectric LiNbO₃ surfaces
Zhengzheng Zhang, P. Sharma, C. N. Borca, P. A. Dowben, and A. Gruverman

Structural characterization study of nickel ferrite particles dispersed in a corrosion product deposit layer
G. Kuri, C. Degueldre, J. Bertsch, C.N. Borca
Applied Surface Science 257, 1300-1305 (2010)


Characterization of Nb-containing MnOₓ-CeO₂ catalyst for selective catalytic reduction of NO by NH₃
M. Casapu, O. Kröcher, M. Elsener, M. Nachttegaal, C. Borca, M. Harfouche, D. Grolimund

The interface bonding and orientation of a quinonoid zwitterion
Physical Chemistry Chemical Physics 12, 10329-10340 (2010)

In-situ Laue diffraction of metallic micropillars
R. Maas, S. Van Petegem, C.N. Borca, H. Van Swygenhoven
Material Science and Engineering A 524, 40-45 (2009)

Microprobe analysis of neutron irradiated and autoclaved zirconium niobium claddings using synchrotron-based hard X-ray imaging and spectroscopy

Technical aspects of Zn microanalysis of human prostate cancer tissues and cells
M. Podgórczyk, W.M. Kwiatek, D. Grolimund, C. Borca
Radiation Physics and Chemistry 78, 53 (2009)

X-ray micro-fluorescence, diffraction and absorption spectroscopy for local structure investigation of a radioactive zinc ferrite deposit
Claude Degueldre, Goutam Kuri, Camelia N. Borca, Daniel Grolimund
Corrosion Science 51, 1690-1695 (2009)

Catalysts at work: From integral to spatially resolved X-ray absorption spectroscopy
Jan-Dierk Grunwaldt, Bertram Kimmerle, Alfons Baiker, Pit Boye, Christian Schroer, Pieter Glatzel, Camelia Borca, Felix Beckmann
Catalysis Today 145, 267-278 (2009)

Structural Determination of a Photochemically Active Diplatinum Molecule by Time-Resolved EXAFS Spectroscopy
Angewandte Chemie – Int. Ed. 48, 2711-2714 (2009)

On the Microstructure of Nanoporous Gold: An X-ray Diffraction Study
Nanoletters 9, 1158-1163 (2009)

Femtosecond XANES study of the light-induced spin crossover dynamics in an iron(II) complex
Science 323, 489-492 (2009)

H⁺ implanted channel waveguides in buried epitaxial crystalline YAG:Nd,Tm layers and infrared-to-blue upconversion characterization
Marta Szachowicz, Marie-France Joubert, Paul Moretti, Maurice Couchaud, Bernard Ferrand, Camelia Borca, Azzedine Boudrioua

Selenium speciation in anaerobic biofilms assessed by X-ray absorption spectroscopy and sequential extraction procedures
Markus Lenz, Eric D. van Hullebusch, Francois Farges, Sergei Nikitenko, Camelia N. Borca, Daniel Grolimund, N.L. Lens
Environmental Science & Technology 42(20), 7587-7593 (2008)

EXAFS Structural Determination of the Pt₄(P₂O₅H₂)₄⁴⁻ Anion in Solution
Renske M. van der Veen, Christopher J. Milne, Van-Thai Pham, Amal El Nahhas, Julia A. Weinstein, Jonathan Best, Camelia N. Borca, Christian Bressler, and Majed Chergui

On the initial microstructure of metallic micropillars
R. Maaß, S. Van Petegem, J. Zimmermann, C.N. Borca and H. Van Swygenhoven
X-ray fluorescence spectrometry for high throughput analysis of atmospheric aerosol samples: The benefits of synchrotron X-rays
Nicolas Bukowiecki, Peter Lienemann, Christoph. N. Zwicky, Markus Furger, Agnes Richard, Gerald Falkenberg, Karen Rickers, Daniel Grolimund, Camelia Borca, Matthias Hill, Robert Gehrig, Urs Baltensperger

Correlation coefficient for dephasing of light-hole excitons and heavy-hole excitons in GaAs quantum wells
Amelia G. VanEngen Spivey, Camelia N. Borca and Steven T. Cundiff

Analysis of the Electronic Configuration of the Pulsed Laser Deposited La$_{0.7}$Ca$_{0.3}$MnO$_3$ thin films
C.N. Borca, S. Canulescu, F. Loviat, T. Lippert, D. Grolimund, M. Döbeli, J. Wambach, A. Wokaun

Large area deposition of Al$_2$O$_3$ thin films with molecular beams in high vacuum
X. Multone, C.N. Borca, P. Hoffmann

Buried channel waveguides in Yb-doped KY(WO$_4$)$_2$ crystals fabricated by femtosecond laser irradiation
C.N. Borca, V. Apostolopoulos, F. Gardillou, H.G. Limberger, M. Pollnau, R.-P. Salathe

Electronic structure of a metal-organic copper spin-1/2 molecule: bis(4-cyano-2,2,6,6-tetramethyl-3,5-heptanediionato)copper(II)

Epitaxial growth and surface properties of half-metal NiMnSb films

Double Tungstate Lasers: From Bulk Toward On-Chip Integrated Waveguide Devices
Markus Pollnau, Yaroslav E. Romanyuk, Florent Gardillou, Camelia N. Borca, Uwe Griebner, Simon Rivier and Valentin Petrov

Lu, Gd codoped KY(WO$_4$)$_2$:Yb epitaxial layers: towards integrated optics based on KY(WO$_4$)$_2$
F. Gardillou, Y.E. Romanyuk, C.N. Borca, R.-P. Salathé, and M. Pollnau

Tm:KY(WO$_4$)$_2$ waveguide laser
Optics Express 15 (9), 5885-5892 (2007)

Room-temperature continuous-wave operation of Ti:sapphire buried channel-waveguide lasers fabricated via proton implantation
C. Grivas, D.P. Shepherd, R.W. Eason, L. Laversenne, P. Moretti, C.N. Borca, M. Pollnau,

Yb-doped KY(WO₄)₂ planar waveguide laser
Y.E. Romanyuk, C.N. Borca, M. Pollnau, S. Rivier, V. Petrov, and U. Griebner

Many-body Interactions in Semiconductors Probed by Optical Two-dimensional Fourier Transform Spectroscopy
Xiaoqin Li, T. Zhang, C.N. Borca, S.T. Cundiff

Optical two-dimensional Fourier transform spectroscopy with active interferometric stabilization
Tianhao Zhang, C.N. Borca, Xiaoqin Li and S. T. Cundiff
Optics Express 13, 7432-7441 (2005)

Optical Two Dimensional Fourier Transform Spectroscopy of Semiconductors
C.N. Borca, T. Zhang, Xiaoqin Li, S.T. Cundiff

Imaging of defect-mediated surface morphology of GaN(0001) grown on sapphire by molecular beam epitaxy
B. Liu, Stephen R. Leone, T. Kitajima, T.H. Zhang, C. Borca

Anomalously Fast Decay of the LH-HH Exciton Raman Coherence
C.N. Borca, A.G. van Engen Spivey, S.T. Cundiff

Hybridization between 4f-5d states in ErAs(100)

Interface composition and electronic properties of Chromium (III, IV) oxide junctions
N. Pilet, C. Borca, A. Sokolov, E. Ovtchenkov, Bo Xu, B. Doudin

Electronic Structure of ErAs (100)

A Comparison of Surface Segregation for two semi-Heusler alloys: TiCoSb and NiMnSb
A. N. Caruso, C. N. Borca, D. Ristoiu, J.P. Nozières, and P. A. Dowben

**Spin blockade effects in chromium oxide intergrain magnetoresistance**
A. Sokolov, C.-S. Yang, L. Yuan, S.-H. Liou, Ruihua Cheng, B. Xu, C.N. Borca, P.A. Dowben and B. Doudin

**Neutron Powder Diffraction Studies of the La$_{0.65}$Pb$_{0.35}$MnO$_3$ Perovskite**
C.N. Borca, S. Adenwalla, J.L. Robertson, S.-H. Liou, Q.L. Xu, P.A. Dowben

**Oxidation of metals at the chromium oxide interface**
R. Cheng, C. N. Borca, N. Pilet, B. Xu, B. Doudin, S. H. Liou, and P. A. Dowben

**Comparing Inverse Photoemission and X-ray Absorption Spectroscopies**
C.N. Borca, Takashi Komesu and P.A. Dowben

**The Surface Phases of the La$_{0.65}$Pb$_{0.35}$MnO$_3$ Manganese Perovskite Surface**
C.N. Borca, Bo Xu, Takashi Komesu, Hae-kyung Jeong, M.T. Liu, S.-H. Liou, and P.A. Dowben

**Zero bias anomaly in CrO$_2$ junctions**
A. Sokolov, C.-S. Yang, L. Yuan, S.-H. Liou, Ruihua Cheng, B. Xu, C.N. Borca, P.A. Dowben, B. Doudin

**Layer-Resolved Spin-Polarization in Sb overlayers on NiMnSb**

**Changes in Electron-Phonon Coupling across a bulk phase Transition in Copolymer Films of Vinylidene Fluoride (70%) with Trifluoroethylene (30%)**
Applied Surface Science 175-176, 265-269 (2001)

**Fabrication of 2- and 3- Dimensional Nanostructures**
Hong Jiang, C.N. Borca, Bo Xu, and B.W. Robertson

**Characterization of the native Cr$_2$O$_3$ oxide surface of CrO$_2$**
Ruihua Cheng, Bo Xu, C.N. Borca, A. Sokolov, C.-S. Yang, L. Yuan, S.-H. Liou, B. Doudin, and P.A. Dowben

**Electronic Structure Modifications Induced by Surface Segregation in La$_{0.65}$Pb$_{0.35}$MnO$_3$ Thin Films**
C.N. Borca, Bo Xu, Takashi Komesu, Hae-kyung Jeong, M.T. Liu, S.-H. Liou, S. Stadler, I. Idzerda and P.A. Dowben
Evidence for Temperature Dependent Moment Ordering in Ferromagnetic NiMnSb(100) Thin Films
C.N. Borca, Takashi Komesu, Hae-Kyung Jeong, and P.A. Dowben, Delia Ristoiu, Ch. Hordequin, J.P. Nozieres, and J. Pierre, Shane Stadler and Y.U. Idzerda
Physical Review B 64, 052409 1-4 (2001)

Potential Phase Control of Chromium Oxide Thin Films Prepared by Laser Initiated Organometallic Chemical Vapor Deposition
Ruihua-Cheng, C.N. Borca, P.A. Dowben, Shane Stadler and Y.U. Idzerda,

Aluminum Doping of Poly(Vinylidene Fluoride with Trifluoroethylene) Copolymer
B. Xu, C.N. Borca, S. Ducharme, A.V. Sorokin, P.A. Dowben,
Journal of Chemical Physics 114, 1866-1869 (2001)

Comparison of Aluminum and Sodium Doping of Poly(vinylidene fluoride with Trifluoroethylene) Copolymer by XPS

The Surface Terminal Layer and Composition of the CMR Perovskite: La$_{0.65}$Pb$_{0.35}$MnO$_3$
C.N. Borca, Delia Ristoiu, Q.L. Xu, S.-H. Liou, P.A. Dowben

Origin of the Magnetic Moments in La$_{0.65}$Pb$_{0.35}$MnO$_3$ Thin Films

The Polarization of Sb Overlayers on NiMnSb (100)
Takashi Komesu, C.N. Borca, Hae-Kyung Jeong, P.A. Dowben, Delia Ristoiu, J.P. Nozieres, Shane Stadler, Y.U. Idzerda

The Effective Surface Debye Temperature for NiMnSb(100) Epitaxial Films
C.N. Borca, Delia Ristoiu, Takashi Komesu, Hae-Kyung Jeong, Ch. Hordequin, J. Pierre, J.P. Nozieres, P.A. Dowben

Bonding Configurations for Nickelocene on Ag(100) and Steric Effects in Thermal Desorption
C.N. Borca, D. Welipitiya, P.A. Dowben, N.M. Boag

Phase Transition in the Surface Structure in Copolymer Films of Vinylidene Fluoride (70%) with Trifluoroethylene (30%)
Manganese Surface Segregation in NiMnSb
Delia Ristoiu, J.P. Nozieres, C.N. Borca, Bogdan Borca, P.A. Dowben

The Surface Composition and Spin Polarization of NiMnSb Epitaxial Thin Films
Delia Ristoiu, J.P. Nozieres, C.N. Borca, T. Komesu, Hae-kyung Jeong, P.A. Dowben

The Influence of Patterning on Co/Pd Multilayer Structures
C.N. Borca and P.A. Dowben

A Lattice Stiffening Transition in Copolymer Films of Vinylidene Fluoride (70%) with Trifluoroethylene (30%)

Structure and Hysteresis of Patterned Soft-Magnetic Structures
C.N. Borca, R. Skomski, P.A. Dowben

Influence of Dynamical Scattering in Crystalline Poly(Vinylidene Fluoride-Trifluoroethylene) Copolymers

Evidence of Jahn-Teller Distorsions in Two-Dimensional Crystalline Molecular Films

The Adsorption of Nickelocene. Part 2: Decomposition and Selective Area Deposition
D. Welipitiya, C. Waldfried, C.N. Borca, P.A. Dowben, N.M. Boag, H. Jiang, I. Gobulukoglu, B. W. Robertson
Surface Science 418, 466-478 (1998)

The Adsorption of Nickelocene. Part 1: Molecular Bonding on Ag(100)
Surface Science 393, 34-46 (1997)

Conference Proceedings:

Femtosecond X-ray Absorption Spectroscopy of a Light-Driven Spin-Crossover Process
Chris J Milne, Van-Thai Pham, Wojcieh Gawelda, Amal El Nahhas, Renske M van der Veen, Steven L. Johnson, Paul Beaud, Gerhard Ingold, Camelia Borca, Daniel Grolimund, Rafael Abela, Majed Chergui, Christian Bressler
Pb in naturally irradiated monazites and zircons
J. Dubrail, F. Farges, L. Gautron, M. Harfouche, C. Borca, D. Grolimund

Time-resolved x-ray absorption spectroscopy: Watching atoms dance
Chris J Milne, Van-Thai Pham, Wojciech Gawelda, Renske M van der Veen, Amal
El Nahhas, Steven L Johnson, Paul Beaud, Gerhard Ingold, Frederico Lima, Dimali A
Vithanage, Maurizio Benfatto, Daniel Grolimund, Camelia Borca, Malek Kaiser, Andreas
Hauser, Rafael Abela, Christian Bressler, Majed Chergui

Retrieving photochemically active structures by time-resolved EXAFS spectroscopy
Renske M van der Veen, Christian Bressler, Chris J Milne, Van-Thai Pham, Amal
El Nahhas, Frederico A Lima, Wojciech Gawelda, Camelia N. Borca, Rafael Abela, Majed
Chergui

Assessment of Zn bioavailability: XAFS study on speciation of zinc-particulate organic
matter associations in polluted soils
M. Harfouche, J. Labanowski, F. Farges, E. van Hullebusch, C. Borca, D. Grolimund,
F. van Oort

Contaminant transport in complex heterogeneous geological media: New insights through
micro-imaging and micro-spectroscopy
Barmettler, B. Aeschlimann, P. Wersin, S.M. Heald

Advanced X-ray diffractive optics
Guzenko, M. Stampanoni, F. Marone, J. Raabe, G. Tzvetkov, R.H. Fink, D. Grolimund,
C.N. Borca, B. Kaulich and C. David

The microXAS beamline at the Swiss Light source: towards nano-scale imaging
David

Optical Two-dimensional Fourier-Transform Spectroscopy of Semiconductor Quantum
 Wells
C.N. Borca, Tianhao Zhang, S.T. Cundiff

Two-dimensional Fourier Transform Optical Spectroscopy of GaAs Quantum Wells
C.N. Borca, T. Zhang, S.T. Cundiff
SPIE Proceedings – Ultrafast Phenomena in Semiconductors and Nanostructured
A Landau-Ginzburg Description of Sb Overlayers

A Surface Insulator-to-Conductor Phase Transition in Colossal Magnetoresistive Manganese Perovskites Thin Films
C.N. Borca, Bo Xu, Takashi Komesu, Hae-kyung Jeong, M.T. Liu, S.-H. Liou, and P.A. Dowben

Selective Area Chemical Vapor Deposition of Chromium Oxides
Ruihua Cheng, C.N. Borca and P.A. Dowben

ESR Investigations on Ca-Perovskites

Growth and Magnetic Properties of \( \text{La}_{0.65}\text{Pb}_{0.35}\text{MnO}_3 \) Films

Is Magnetic Circular Dichroism Surface Sensitive in the Manganese Perovskites?

The Influence of Patterning in Co and Co/Pd Multilayers Structures
C.N. Borca, Rui-Hua Cheng, and P.A. Dowben

Fabrication of Micron Scale Magnetic Nickel Features by Selective Organometallic Chemical Vapor Deposition
D. Wellpitiya, C.N. Borca, P.A. Dowben, I. Gobulukoglu, Hong Jiang, B.W. Robertson, and Jiandi Zhang
The Influence of Topology on Magnetism
C.N. Borca, D. Welipitiya, S. Adenwalla, P.A. Dowben
Physics of Low-Dimensional Structures 12, 173-178 (1997)

Personal conference and workshop attendance with active contribution:

Invited lectures:
Swiss Institute for Art Research, Zurich (Switzerland), 21 February 2011
Paint layers analysis by synchrotron based XRF and XRD

University of Fribourg, Physics Department, Fribourg (Switzerland), 30 January 2009
Analysis of the electronic configuration in manganite thin films using X-ray absorption spectroscopy

7th International Conference on Transparent Optical Networks – ICTON, Barcelona, Spain, July 3-7 2005
Perspectives of rare-earth ion doped crystals waveguide lasers and amplifiers

Microscopy and Microanalysis Conference, Quebec City, Canada, August 5-8 2002
Exploring Surfaces of Pb-doped Manganese Perovskites

Laboratoire Louis Néel, CNRS Grenoble (France), 25 September 2001
Surfaces of Half-Metals

Contributed papers:

2014
European Materials Research Society – EMRS, Lille (France) May 26 - 30 2014
Contributor to oral presentations: Structural investigation of phase change memory stacked films and Phase Dynamics and Sub-Micrometric Properties of Complex Uranium Compounds

2013
European Materials Research Society – EMRS, Strasbourg (France) May 26 - 31 2013
Contributor to oral presentations: Selenium speciation in a spent UO2 fuel and in non-irradiated UO2 reference samples: a synchrotron-based (micro-)XRF / XAS feasibility study and X-ray absorption in plutonium uranium mixed oxide fuel: thorium characterization

2012
European Materials Research Society – EMRS, Strasbourg (France) May 14 - 18 2012
Contributor to oral presentation: Radiation induced structural and magnetic changes in Fe-Cr alloys

2011
European Materials Research Society – EMRS, Nice (France) May 9 - 13 2011
Oral presentation: The influence of Cr-composition on the local atomic and magnetic structure of FeCr alloys

Joint annual meeting SPS - APS, Lausanne (Switzerland) 15-17 June 2011
Poster presentation: *Investigating the structure of Fe-Cr alloys using synchrotron based X-ray microanalysis*

Joint User Meeting @ PSI - JUM@P’11, PSI Villigen (Switzerland), Sept 15-16 2011
Poster presentation: *Study of radiation-induced modifications in Fe-Cr alloys using grazing incidence X-ray spectroscopy*

**2010**
European Materials Research Society – EMRS, Strasbourg (France), June 7 - 11 2010
Oral presentation: *Investigating the structure of Fe-Cr alloys using synchrotron based X-ray microanalysis*

Materials Modelling in Nuclear Energy Environments: State of the Art and Beyond, CECAM-ETHZ, Zurich (Switzerland), April 26-29 2010
Poster presentation: *EXAFS investigations on moderately doped Fe-Cr alloys for model validation*

**2009**
8th Summer School on Functional Materials, Zuoz (Switzerland), Aug 1-5 2009
Poster presentation: *XAS investigations at the Mn and Nb K-edges of the MnO$_x$-NbO$_x$-CeO$_2$ catalyst*

Joint User Meeting @ PSI - JUM@P’09, PSI Villigen (Switzerland), Oct 12-13 2009
Poster presentation: *Investigating the structure of Fe-Cr alloys for model validation using synchrotron based X-ray microanalysis techniques*

Electron Microscopy and Multiscale Modelling EMMM 09, Zurich (Switzerland), Oct 27-30 2009
Oral presentation: *Investigating the structure of Fe-Cr alloys for model validation using synchrotron based X-ray microanalysis techniques*

**2008**
X-ray Microscopy Conference, Zurich (Switzerland), July 21-25 2008
Poster presentation: *The micro-XAS beamline: a multi-technique hard X-ray microprobe station at the Swiss Light Source*

**2007**
European Materials Research Society – EMRS, Strasbourg (France), May 27 – June 1 2007
Oral presentation: *Analysis of the Electronic Configuration of the Pulsed Laser Deposited La$_{0.7}$Ca$_{0.3}$MnO$_3$ thin films*

6th Summer School on Correlated Electron Materials, Zuoz (Switzerland), Aug 18-25 2007
Poster presentation: *Electronic configuration of the pulsed laser deposited La$_{0.7}$Ca$_{0.3}$Mn$_{0.8}$Fe$_{0.2}$O$_3$ thin films*

**2006**
European Materials Research Society – EMRS, Nice (France), May 29 – June 2 2006
Oral presentation: *Buried channel waveguides in Yb-doped KYW crystals fabricated by femtosecond-irradiation*
15th International laser physics Workshop – LPHYS, Lausanne (Switzerland), July 24-28, 2006
Oral presentation: *Focused ion beam nano-structured rib waveguides on KY(WO$_4$)$_2$ for laser applications*

Annual Meeting of the Swiss Physical Society, EPF Lausanne (Switzerland), February 13-14, 2006
Poster Presentation: *Optical Channel Waveguides in KY(WO$_4$)$_2$* :Yb$^{3+}$

**2005**
European Materials Research Society – EMRS, Strasbourg (France), May 31 – June 3 2005
Oral presentation: *Fabrication of optical planar and channel waveguides in Yb3+ doped KY(WO$_4$)$_2$ by He-ion implantation*

Conference on Lasers and Electro-Optics / European Quantum Electronics Conference – CLEO Europe EQEC, Munich (Germany), June 12-17 2005
Oral presentation: *Fabrication of optical planar waveguides in KY(WO$_4$)$_2$ by He ion implantation*

**2004**
Oral presentation: *Two-dimensional Fourier transform optical spectroscopy of GaAs quantum wells structures*

**2003**
American Physical Society – March Meeting, Austin TX (U.S.A.), March 3-7 2003
Oral presentation: *Measurement of LH-HH Exciton Raman Coherence Using Three-Beam Transient Four-Wave Mixing*

**2001**
61st Annual Physical Electronics Conference, Taos NM (U.S.A.), June 11-13 2001
Oral presentation for Nottingham prize competition: *Evidence for Temperature Dependent Magnetic Moment Ordering in Ferromagnetic NiMnSb(100) Thin Films*

EuroConference on Computer Simulation of Complex Interfaces: Out of the vacuum, Into the Real World – Electronic Structure of Solids and Surfaces, Gien (France), September 7-12 2001
Poster presentation: *Surfaces of Half-Metals*

**2000**
American Physical Society – March Meeting, Minneapolis MN (U.S.A.), March 20-24 2000
Oral presentation: *Evidence of a Surface Phase Transitions in La$_{0.65}$Pb$_{0.35}$MnO$_3$ Thin Films*

47th International Symposium of the American Vacuum Society, Boston MA (U.S.A.), October 2-6 2000
Oral presentation: *Magnetic Dichroism in the Soft X-ray Absorption Region of NiMnSb Ferromagnetic Alloy*

Poster presentation: *Phase Transitions in Two-Dimensional Ferroelectric Films*

2001 Spring Meeting of the Material Research Society, San Francisco CA (U.S.A.), April 16-20 2001
Oral presentation: *Tailoring Manganese Perovskite Surfaces*

1999
 American Physical Society – Centennial Meeting, Atlanta GA (U.S.A.), March 20-26 1999
Oral presentation: *Influence of Dynamical Scattering in Crystalline Poly(Vinylidene Fluoride-Trifluoroethylene) Copolymers*

Spring Meeting of the Material Research Society, San Francisco CA (U.S.A.), April 5-9 1999
Oral presentation: *Micromagnetic Model of Patterned Soft Magnetic Structures*
Oral presentation: *The Influence of Patternning on Co and Co/Pd Multilayers Structures*

46th International Symposium of the American Vacuum Society, Seattle WA (U.S.A.), October 25-29 1999
Oral presentation: *Phase Transitions in Two-Dimensional Ferroelectric Films*

44th Annual Conference in Magnetism and Magnetic Materials, San Jose CA (U.S.A.), November 15-18 1999
Oral presentation: *Surface Phases in Perovskite Thin Films*
Oral presentation: *The Magnetic Properties of the Lead Manganese Perovskite: (La, Pb) MnO₃*

1998
 American Physical Society, Los Angeles CA (U.S.A.), March 15-20 1998
Oral presentation: *Fabrication and Characterization of Micron Scale Magnetic Features*

45th International Symposium of the American Vacuum Society, Baltimore MD (U.S.A.), November 2-6 1998
Oral presentation: *Fabrication and Characterization of Micron Scale Magnetic Features*

Oral presentation: *Fabrication and Characterization of Micron Scale Magnetic Features*

1997
 Nebraska Academy of Sciences Inc., Lincoln NE (U.S.A.), April 25-26 1997
Oral presentation: *Micron-Scale Magnetic Nickel Features*

10th International Conference on Superlattices, Microstructures and Microdevices, Lincoln NE (U.S.A.), July 8-11 1997
Oral presentation: *The Influence of Topology on Magnetism*

45th Midwest Solid State Conference, Manhattan KS (U.S.A.), October 3-4 1997
Oral presentation: *Fabrication of Micron Scale Magnetic Nickel Features by Selective Area Organometallic Chemical Vapor Deposition*