

CURRICULUM VITAE et Production Scientifique de Marc SIMON

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LISTE DE PUBLICATIONS AVEC COMITE DE LECTURE

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- 79-** Experimental and Theoretical Study of X-Ray Absorption around the Chlorine L edge in Vinyl Chloride.
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- 81-** Resonance-Enhanced Multiple Ionization of Krypton at an X-ray Free-Electron Laser.
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- 5- Summer School Applications of Synchrotron Radiation in Life Sciences and Chemistry,
Maratea (Italie) 2-10 Novembre 1996
Inner Shell Processes in Molecules and Applications in Gas Phase Chemistry
- 6- 5th International Workshop on Photoionization, Chester (UK) 16-21 Juillet 1997
Nuclear motion effects in core excited molecules, studied using PES and Auger electrons-
ions coincidences
- 7- Atelier Excitation et fragmentation des agrégats par collision, Paris 10-12 mai 1999
Fragmentations sélectives de molécules excitées en couche interne"
- 8- 18th X-ray and Inner-Shell Processes, Chicago (USA), 23-27 Août 1999
Dynamical effects and selective fragmentation after inner shell excitation
- 9- Ecole thématique détection sensible en position, Orsay 3-5 Novembre 1999
Coïncidences en physique atomique et moléculaire
- 10- Workshop on perspectives in atomic and molecular physics with extremely high resolution,
Spring 8 (Japon), 9-10 décembre 1999
- 11- 8th International Conference on Electron Spectroscopy and Structures, Berkeley (USA),
8-12 Août 2000
Relaxation of core excited molecules probed by Auger ion coincidences
- 12- Eleventh International Symposium on Polarization and Correlation in Electronic and Atomic
Collisions. Rolla, Missouri (USA) 25-28 Juillet 2001
Auger angular distribution and non-dipole effects from core excited fixed in space molecules
- 13- International Workshop on Dynamics in Core-excited molecules, Hiroshima (Japon)
27-29 Août 2002
Relaxation of core excited molecules probed by Auger ion coincidences

- 14-** 9th International Conference on Electron Spectroscopy and Structures, Uppsala (Suède), 30 Juin-4 Juillet 2003
Core excited molecules probed by Auger electron-ion double imaging coincidence techniques
- 15-** Workshop New trends in gas phase VUV/ soft X-ray high resolution spectroscopies at SOLEIL, Orsay, mars 2005:
Perspectives in Soft X-ray emission spectroscopy of inner shell excited diluted species
- 16-** Symposium New Science in the VUV/Soft X Ray Range: Advanced Undulator Beamlines And Free Electron Lasers, Campinas (Brésil), juillet 2005:
Beamline proposal in the tender X-Ray region (1-7 keV) dedicated to Atomic and Molecular Physics.
- 17-** 8th International Workshop on Photoionization, Campinas (Brésil), 27-31 juillet 2005:
Resonant Inelastic X-Ray Scattering around the chlorine K Shell of the HCl molecule: role of the nuclear dynamics in the tender X-ray region.
- 18-** Ecole thématique du CNRS Spectroscopie d'Absorption X et techniques associées. Centre Paul Langevin, Aussois du 12 au 16 Juin 2006
- 19-** Atelier Dynamique, Réactivité, Fragmentation : techniques expérimentales du GDR 2758, Thermodynamique, Fragmentation et Agrégation de systèmes moléculaires complexes isolés, Orsay 20-22 juin 2006
Fragmentation de molécules excitées en couche interne : perspectives offertes par le Rayonnement Synchrotron de troisième génération
- 20-** International Workshop on Soft X-Ray Raman Spectroscopy and Related Phenomena. Okazaki (Japon) du 17 au 19 août 2006.
Resonant Inelastic X-Ray scattering around the chlorine K shell of the HCl molecule: role played by the nuclear dynamics in the tender X-Ray region.
- 21-** 20th International Conference on Raman Spectroscopy. Yokohama (Japon) 20-25 août 2006.
Subfemtosecond nuclear Motion in Cl 1s Core-Excited chlorinated molecules probed by Resonant Inelastic X-Ray Scattering: Experiment and Theory.
- 22-** International Symposium Scattering, Coincidence and Absorption Studies of Molecules. Rio de Janeiro, (Brésil), September 4-6, 2006
Subfemtosecond nuclear Motion in Cl 1s Core-Excited chlorinated molecules probed by Resonant Inelastic X-Ray Scattering: Experiment and Theory.
- 23-** MAX lab User's meeting, Lund (Sweden), October 29th-31st 2007, Gas phase/solid state high energy Photoemission project at SOLEIL
- 24-** International Workshop on Resonant Inelastic Soft X-Ray Scattering, Uppsala (Sweden) June 13rd-14th 2008, Linear Dichroism in Resonant Inelastic X-Ray Scattering to Molecular Spin-Orbit States
- 25-** 3rd International Workshop on Hard X-ray Photoelectron Spectroscopy, Brookhaven (USA) May 20th-22nd 2009, Gas Phase/Solid State HAXPES project at SOLEIL

- 26- International Workshop on Soft X-ray Scattering. Hsinchu (Taiwan) October 12nd-13rd 2009, Resonant Inelastic X-ray Scattering on Diluted Species in the Tender X-Ray Region.
- 27- 18th European Conference on Dynamics of Molecular Systems, Coimbra (Portugal) September 5th-10th 2010, Relaxation dynamics of core excited molecules probed by Resonant Inelastic X-ray Scattering.
- 28- 7th International Conference on Inelastic X-ray Scattering, Grenoble (France) October 11st-14th 2010, Interferences between Thomson and Resonant Elastic Scattering in the Vicinity of the K-shell Energy Region of the HCl Molecule.
- 29- Ecole thématique du CNRS “Les Grands Champs de Recherche Ouverts par les Lasers à Électrons Libres XUV/X”, Presqu’île de Giens (France) October 18th-21st 2010, Étude de la formation d’atomes et de molécules à doubles trous en couche interne à l’aide du rayonnement XFEL.
- 30- 75th Annual Meeting of the DPG and DPG Spring Meeting, Dresden (Germany) March 13th - 18th 2011, Doppler effect in fragment autoionization following core-to-valence excitation in O₂.
- 31- 4th International Conference on Hard X-ray Photoelectron Spectroscopy, Hamburg (Germany) September 14th-16th 2011, Complex decay patterns in Ar following K-edge photoexcitation or photoionization disentangled by ion recoil experiments.
- 32- SOLEIL User’s Meeting 2012, January 18th - 19th 2012, Relaxation dynamics of atoms and molecules after photoexcitation in the tender X-Ray region (2 - 12 keV)
- 33- International Center for Theoretical Physics, ICTP school on Synchrotron and FEL Based Methods and their Multi-Disciplinary Applications, Trieste 19th-31st March 2012. Low-density matter: spectroscopy and scattering.
- 34- GDRi, Journée annuelle du GDRi XFEL-Science, 26-27 novembre 2012, Aix en Provence, Absorption multiphotonique dans le domaine des rayons X par des atomes et des molécules.
- 35- 5th international conference on hard X-ray photoelectron spectroscopy, 17th-20th June 2013, Uppsala (Sweden)
Hard X-ray Photoemission of atoms and molecules: Doppler effect on fast recoiling Neon ions and subfemtosecond nuclear motion.
- 36- International Symposium on (e, 2e), Double Photoionization and Related Topics, 1st-3rd August 2013 Hefei (China), plenary lecture
Relaxation dynamics of deep inner shell excited atoms and molecules
- 37- International Symposium XFEL, 16th-20th September 2013 Dinard.
Atomic and Molecular Physics with XFEL
- 38- International Conference Atomic and Molecular Physics: a joint Japanese and French view over 120 years, Vaux de Cernay, 21-23 Juillet 2014
What a coincidence!

- 39-** International Workshop on Photoionization and Resonant Inelastic X-Ray Scattering, Erice (Italy), 26 août-1 septembre 2014
Relaxation dynamics of Atoms and Molecules in the tender x-ray region.
- 40-** International workshop on Physics and Molecular Spectroscopy, Brasilia (Brésil), 9-12 novembre 2014. Conférence plénière.
Relaxation dynamics of Atoms and Molecules in the tender x-ray region.
- 41-** International workshop on future of AMO Science at FLASH, Hambourg (Allemagne), 11 décembre 2014.
Perspectives in pump-probe experiments using brilliant XFEL sources.
- 43-** SOLEIL User's Meeting 2015, January 22th - 23th 2015, Relaxation dynamics of atoms and molecules after photoexcitation in the tender X-Ray region (2 - 12 keV)
- 44-** 6th International Conference on Hard X-ray Photoelectron Spectroscopy, Hsinchu (Taiwan) March 30th- April 3rd 2015 Conférence plénière
Relaxation dynamics of atoms and molecules after photoexcitation in the tender X-Ray region (2 - 12 keV)
- 46-** 13th International Conference on Electron Spectroscopy and Structures, Stony Brook (US), 28 Septembre-2 Octobre 2015
Relaxation dynamics of atoms and molecules after photoexcitation in the tender X-Ray region (2 - 12 keV)
- 47-** European Group on Atomic Systems, Riga (Létonie), 14-17 juillet 2015. Conférence plénière.
Relaxation dynamics of Atoms and Molecules in the tender x-ray region.
- 48-** 25th Annual Users' Meeting of the Brazilian Synchrotron, Campinas (Brazil), 16-17 Septembre 2015
Relaxation dynamics of Atoms and Molecules in the tender x-ray region.
- 49-** The International Chemical Congress of Pacific Basin Societies (PACIFICHEM), Honolulu, US, 15-20 décembre 2015.
Mass spectrometry and resonant inelastic x-ray scattering with tenderness: a tribute to Dennis Lindle
- 50-** The Future of X-Ray and Electron Spectroscopies, 15th-17th of June 2016 at Uppsala University, Sweden.
HAXPES of free atoms and molecules
- 51-** The International Conference on Many Particle Spectroscopy of Atoms, Molecules, Clusters and Surfaces MPS-2016, Moscow (Russia), 23-26 of August 2016.
Relaxation dynamics of core excited Atoms and Molecules probed by coincidences techniques and Hard X-ray Photoelectron Spectroscopy.
- 52-** Conference Dynamic Pathways in Multidimensional Landscapes, 12-16 Sept 2016, Berlin (Allemagne).
Relaxation dynamics after deep inner shell excitation of isolated Atoms and Molecules.
- 53-** 29th MAX user's meeting, 13-15 March 2017, Lund (Sweden).

Spectroscopy on isolated Atoms and Molecules in the tender x-ray domain.

- 54-** Diffmax combined with Electron Spectroscopies, 22-23 March 2017, Uppsala (Sweden).
HAXPES on isolated Atoms and Molecules.
- 55-** 33rd Symposium on Chemical Kinetics and Dynamics, 7-9 June 2017, Nagoya (Japan).
Conférence plénière.
Recent results on deep inner shell spectroscopy.
- 56-** International Symposium on (e,2e), Double Photo-ionization and Related Topics and the
19th International Symposium on Polarization and Correlation in Electronic and Atomic
Collisions, 2-4 August 2017, Cairns (Australia). Conférence plénière.
Fundamental processes in the "tender" X-ray region.
- 57-** International Workshop on Theoretical X-ray Spectroscopy, 7-8 May 2018, Stockholm
(Sweden).
A long way with Faris Gel'mukhanov toward attosecond dynamics !
- 58-** Marc Simon Workshop on Atomic and Molecular Physics, 24 August 2018, Tokyo (Japan).
Overview on fundamental processes in the tender x-ray domain.
- 59-** VUV Workshop, 15th November 2018, Villigen (Switzerland).
Synchrotrons and FEL – A Perspective.
- 60-** Science and applications of synchrotron radiation from 10 to 20 years from today, 3-4
December 2018, Trieste (Italy)
Dynamics and structures perspectives in AMO with synchrotron radiation
- 61-** International Workshop on x-ray Science. Uppsala, Sweden, 7th May 2019.
Ultrafast dynamics in the tender x-ray domain on diluted species.
- 62-** International Conference on Photonic, Electronic and Atomic Collision, Deauville, France,
23-30 juillet 2019
Double Core Hole dynamics in the tender x-ray domain.
- 63-** International Conference Beating the Complexity of Matter through the Selectivity of X-
rays -Dynamic Pathways in Multidimensional Landscapes, Berlin, Germany, 16-20
September 2019.
Ultrafast dynamics in the tender x-ray domain on diluted species.
- 64-** Future of BESSY III Workshop Molecular and Physical Chemistry, Virtuel, 27 October
2020.
Present trends and perspectives in the soft and tender x-ray domain for studies on diluted
species.
- 65-** PETRA IV workshop – Earth, Environment and Materials for Nanoscience and
Information, Virtuel, 02-04 Novembre 2020.
Perspectives in High-Resolution Electron Spectroscopy in the soft and tender x-ray region
in gas phase.
- 66-** Workshop on imaging soft X-ray spectroscopy at the SQS instrument of the EuXFEL,
Virtuel, 21-22 Octobre 2021.

Perspectives in X-ray emission of Double Core Hole states.

- 67-** European XFEL Users' Meeting, Virtuel, 21-27 Janvier 2022.
Double core hole dynamics of the H₂O molecule in gas phase.
- 68-** Extreme Atomic Systems, Riezlern, Autriche, 14-18 février 2022.
Double core hole dynamics of the H₂O molecule in the gas phase.
- 69-** Journées Nationales des Spectroscopies de Photoémission, Dijon, 16-18 mai 2022.
Photoemission of isolated atoms and molecules in the hard x-ray domain.
Plenary Lecture
- 70-** 9th International Conference on Hard X-Ray Photoelectron Spectroscopy (HAXPES 2022),
Himeji, Japon, virtuel, 31 mai-3 juin 2022.
Photoemission of isolated atoms and molecules in the tender x-ray domain.
Plenary Lecture
- 71-** Dynamics of Energetic & Electronic Processes in molecules and clusters in the GAS phase,
Madrid, Espagne, 4-7 octobre 2022.
Dynamics and structures perspectives in Atomic and Molecular Physics in the tender x-ray
region (2-12 keV)
- 72-** International Workshop on Photoionization (IWP) and Resonant Inelastic X-ray Scattering
(RIXS), Zao-Cho, Japon, 15-18 novembre 2022.
Discussion leader and overview on Atomic and Molecular Physics using Synchrotron
Radiation.
- 73-** VUVX international conference, Campinas, Brésil, 3-7 juillet 2023
Double Core Hole dynamics studied with Synchrotron and XFEL radiations.