

Curriculum Vitæ

SAKELLARIOU Dimitris
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Born March 22nd 1974 Athens, Greece

Studies

- 1991: High School certificate (Option Mathematics, Physics, Chemistry), mention excellent, congratulations of the jury, 3rd place on the national test of chemistry, participation in the “Chemistry Olympics” (Lodz 1991 - Poland).
- 1992 and 1993 : 1st and 2nd year in the department of Chemistry of the university of Athens, ranked 1st, scholarship for both years.
- 1994: 3rd year in the department of Chemistry of the university of Athens, transfer through exchange program to the Ecole Normale Supérieure de Lyon.
- 1995 and 1996: License and Maitrise in Chemistry and Physics at the Ecole Normale Supérieure de Lyon, Mention A.B., Scholarship for 1 year.
- 1997: Masters in elementary constituents of matter in the Institute of Nuclear Physics of University Claude Bernard Lyon 1, ranked 2nd on the classement, government bursary for PhD studies (3 years). Magistère des sciences de la matière (certificate equivalent of Chemical Engineering)
- 1998–2000: PhD thesis in the laboratory of Stereochemistry and Molecular Interactions of ENS Lyon, title: “Nuclear spin diffusion in solid-state NMR”, under the direction of Pr. L. Emsley. Teaching assistant (Monitorât) in molecular physics, theoretical chemistry, NMR and inorganic chemistry.
- 2000– 2004: Post-doctoral fellow at the Lawrence Berkeley National Laboratory, in the Materials Sciences Division, under the direction of Pr. A. Pines.
- 2004–today: Tenured Researcher in the Service of Molecular Chemistry, Commissariat à l’Energie Atomique, Saclay, France. Habilitated to direct PhD thesis since 2008.
- 2008- today: Habilitation in directing research
- 2009- today: Qualification as a University Professor

Languages

- English, French and Greek ...
- Unix, C, C++, Matlab
- Bruker, Varian, Chemagnetics and Tecmag

Professional Experience

- Summer 1995: Project carried out at the department of physical chemistry of the university of Athens, under the direction of Pr. A. Mavridis, having subject: "Examination of the validity of Dunham analysis and perturbation methods for the extraction of spectroscopic constants for diatomic molecular systems."
- Summer 1996: Project carried out at the laboratory of Stereochemistry and Molecular Interactions of the ENS-Lyon, under the direction of Pr. L. Emsley, title: "Spectral Editing in Solid-State NMR."
- Spring-Summer 1997: Project carried out at the laboratory of Stereochemistry and Molecular Interactions of the ENS-Lyon, under the direction of Pr. L. Emsley, title: "Spin Diffusion in Solid-State NMR"
- Spring 1999: Collaboration in the laboratory of Bruker-Germany, with Dr. S. Steuernagel. International patent No 198341445.8: "Method to Improve Resolution of Two-dimensional Heteronuclear Correlation Spectra in Solid-State NMR"
- Summer 2000: Collaboration in the NMR laboratory of the University of Durham, with Dr. P. Hodgkinson on heteronuclear decoupling in liquid crystals.
- Winter 2004: Collaboration with UC Berkeley on the construction of a Dynamic Angle Spinning NMR probe.
- Winter 2005: Collaboration with UC Berkeley on Ex-Situ NMR.
- Spring 2006: P.I. on a collaboration with University of Cambridge (Prof. Ian Farnan) and the Pacific Northwest National Laboratory on Micro-coils in Radiological NMR (Dr. Herman Cho).
- Spring 2008: Collaboration with University of Windsor and Prof. Rob Schurko. His PhD student Joel Tang worked in my group for several months in static micro-coils and quadrupolar nuclei.
- Spring 2009: Invited Professor at the New York City College : Collaboration with the Prof. C. Meriles on Optical detection in Magnetic Resonance.
- Winter 2008 and 2009: Teaching NMR at the Master's program of University of Cergy Pontoise.

Awards

I received in 2004 in the 7th International Conference on Porous Media the **Giulio Cesare Borgia Prize** (citation): “For outstanding leadership in the development of NMR techniques. These techniques will have major impact in enabling new ex-situ applications of magnetic resonance in porous media”.

Funding I.D.

- 2006: Project leader, Project NMR2GO: funded by the French National Agency of Research: Young Researcher Grant for 3 years (150kEuros).
- 2008: Project leader, Project R-EVOLUTION-M-R: funded by the European Research Council: Starting Grant for 5 years. (This project together with 230 others was selected to be funded among 9300 projects on European level all disciplines included) (1.8MEuros).
- 2009: Project leader together with the Pr. C. Bonhomme, Project NanoMACS: funded by C’nano: Centre de compétitivité Nanosciences Ile de France (45kEuros).
- 2009: Hosting responsible for Dr. Aguiar, Project MicroNMRLab: funded by the FP7 as an Marie Curie International Incoming Fellowship (IIF) (120kEuros).

Publications

1. D. SAKELLARIOU, P. Hodgkinson and L. Emsley, “*Quasi Equilibria in Solid-State NMR*”, Chem. Phys. Lett., **293**, 110, (1998).
2. A. Lesage, D. SAKELLARIOU, S. Steuernagel and L. Emsley, “*Carbon-Proton Chemical Shift Correlation in Solid-State NMR by Through-Bond Multiple-Quantum Spectroscopy*”, J. Am. Chem. Soc., **120**, 13194 (1998).
3. A. Lesage, D. SAKELLARIOU, L. Emsley and S. Steuernagel, “*A New Carbon-Proton Chemical Shift Correlation Experiment for Solid-State NMR*”, Bruker Report, **147**, 7 (1999).
4. D. SAKELLARIOU, P. Hodgkinson, S. Hediger and L. Emsley, “*Experimental observation of Periodic Quasi Equilibria in Solid-State NMR*”, Chem. Phys. Lett., **308**, 381, (1999).
5. D. SAKELLARIOU, A. Lesage, P. Hodgkinson and L. Emsley, “*Homonuclear Dipolar Decoupling in Solid-State NMR using Continuous Phase Modulation*”, Chem. Phys. Lett., **319**, 253, (2000).
6. P. Hodgkinson, D. SAKELLARIOU and L. Emsley, “*Simulation of Extended Periodic Systems of Nuclear Spins*”, Chem. Phys. Lett., **326**, 515 (2000).
7. Z. Yao, H.-T. Kwak, D. SAKELLARIOU, L. Emsley and P. J. Grandinetti, “*Sensitivity Enhancement of the Central Transition NMR Signal of Quadrupolar Nuclei under Magic-Angle Spinning*”, Chem. Phys. Lett., **327**, 85 (2000).

8. D. SAKELLARIOU, A. Lesage and L. Emsley, “Spectral Editing in Solid-State NMR using Scalar Multiple Quantum Filters”, *J. Magn. Reson.* **151**, 40 (2001).
9. D. SAKELLARIOU, A. Lesage and L. Emsley, “Proton-proton constraints in powdered solids from ^1H - ^1H - ^1H and ^1H - ^1H - ^{13}C three-Dimensional NMR Chemical Shift Correlation Spectroscopy”, *J. Am. Chem. Soc.*, **123**, 5604 (2001).
10. C. A. Meriles, D. SAKELLARIOU, H. Heise, A. Moulé and A. Pines, “Approach to High-Resolution Ex-Situ NMR Spectroscopy”, *Science*, **293**, 82 (2001).
11. A. Lesage, L. Duma, D. SAKELLARIOU and L. Emsley, “Improved Resolution in Proton NMR Spectroscopy of powdered solids”, *J. Am. Chem. Soc.*, **123**, 5747 (2001).
12. D. SAKELLARIOU and L. Emsley, “Through-bond experiments in solids”, *The Encyclopedia of NMR*, **9**, 196 (2002).
13. P. Charmont, D. SAKELLARIOU and L. Emsley, “Sample Restriction Using Radiofrequency Field Selective Pulses in High-Resolution Solid-State NMR”, *J. Magn. Reson.* **154**, 136 (2002).
14. J. D. Walls, M. Marjanska, D. SAKELLARIOU, F. Castiglione and A. Pines, “Selective Excitation in Dipole Coupled Systems”, *Chem. Phys. Lett.* **357**, 241 (2002).
15. C. A. Meriles, D. SAKELLARIOU and A. Pines, “Resolved magic-angle spinning of anisotropic samples in Inhomogeneous Fields”, *Chem. Phys. Lett.* **358**, 391 (2002).
16. H. Heise, D. SAKELLARIOU, C. A. Meriles, A. Moulé and A. Pines, “Two-Dimensional High-Resolution NMR Spectra in Matched B_0 and B_1 Field Gradients”, *J. Magn. Reson.* **156**, 146 (2002).
17. D. SAKELLARIOU, C. A. Meriles, A. Moulé and A. Pines, “Variable Rotation Composite Pulses for High Resolution Nuclear Magnetic Resonance Using Inhomogeneous Magnetic and Radio-Frequency Fields”, *Chem. Phys. Lett.* **363**, 25 (2002).
18. S. Wi, J. Logan, D. SAKELLARIOU, J. Walls and A. Pines, “Rotary Resonance Recouplings of Half-Integer Quadrupolar Nuclei in Solid-State Nuclear Magnetic Resonance Spectroscopy”, *J. Chem. Phys.* **117**, 7024 (2002).
19. M. Marjanska, R. H. Havlin and D. SAKELLARIOU “Coherent averaging and correlation of anisotropic spin interactions in oriented molecules”, chapter in *NMR of Orientationally Ordered Liquids*, edited by E. E. Burnell and C. A. deLange, Klunier Scientific (2002).
20. G. De Paëpe, D. SAKELLARIOU, P. Hodgkinson, S. Hediger and L. Emsley, “Heteronuclear decoupling in solid state NMR using continuous phase modulation”, *Chem. Phys. Lett.* **368**, 511 (2003).
21. D. SAKELLARIOU, S. P. Brown, A. Lesage, S. Hediger, M. Bardet, C. A. Meriles, A. Pines and L. Emsley, “High-Resolution NMR Spectra of Disordered Solids”, *J. Am. Chem. Soc.*, **125**, 4376 (2003).

22. L. Duma, S. Hediger, A. Lesage, D. SAKELLARIOU and L. Emsley, “*Carbon-13 Lineshapes in Solid-State NMR of Labeled Compounds. Effects of Coherent CSA-Dipolar Cross Correlation*”, J. Magn. Reson., **162**, 90 (2003).
23. A. Lesage, D. SAKELLARIOU, S. Hediger, B. Elena, P. Charmont and L. Emsley, “*Experimental Aspects of Proton NMR Spectroscopy in Solids using Phase-Modulated Homonuclear Dipolar Decoupling*”, J. Magn. Reson., **163**, 105 (2003).
24. C. A. Meriles, D. SAKELLARIOU and A. Pines, “*Broadband Phase Modulation by Adiabatic Pulses*”, J. Magn. Reson., **164**, 177 (2003).
25. D. SAKELLARIOU, C. A. Meriles, R. W. Martin and A. Pines, “*High-Resolution NMR of Anisotropic Samples With Spinning Away from the Magic Angle*”, Chem. Phys. Lett., **377**, 333 (2003).
26. C. A. Meriles, D. SAKELLARIOU, A. Moulé, M. Goldman, T. Budinger and A. Pines, “*High-resolution NMR of static samples by rotation of the magnetic field*”, J. Magn. Reson. **169**, 13 (2004).
27. D. SAKELLARIOU, C. A. Meriles and A. Pines, “*Advances in ex-situ Nuclear Magnetic Resonance*”, C. R. Physique, **5**, 337 (2004).
28. V. Demas, D. SAKELLARIOU, C. A. Meriles, S. Han, J. Reimer and A. Pines, “*Three-dimensional phase-encoded chemical shift MRI in the presence of inhomogeneous fields*”, Proc Nat. Acad. Sci., **101**, 8845 (2004).
29. G. H. J. Park, R. W. Martin, D. SAKELLARIOU, A. Pines, A. G. Sahkhatuni, A. A. Sahkhatuni and H. A. Panosyan, “*Variable angle spinning (VAS) NMR study of solvent effects in liquid crystalline solutions of ^{13}C -iodomethane*”, Chem. Phys. Lett., **399**, 196 (2004).
30. D. Topgaard, R. W. Martin, D. SAKELLARIOU, C. A. Meriles and A. Pines, “*Shim pulses for NMR spectroscopy and imaging*”, Proc. Nat. Acad. Sci., **101**, 17576, (2004).
31. C. A. Meriles, D. SAKELLARIOU, A. Trabesinger, V. Demas and A. Pines, “*Zero-to low-field MRI with averaging of concomitant gradient fields*”, Proc. Nat. Acad. Sci., **102**, 1842 (2005).
32. D. SAKELLARIOU, C. A. Meriles, R. W. Martin and A. Pines, “*NMR in rotating magnetic fields: Magic angle field spinning*”, Magn. Reson. Imag, **23**, 295 (2005).
33. D. SAKELLARIOU, J.-F. Jacquinet and T. Charpentier, “*2D correlation spectra of isotropic and anisotropic ^{29}Si chemical shifts in crystalline and amorphous natural abundance materials under very slow sample rotation*”, Chem. Phys. Lett., **411**, 171 (2005).
34. D. Topgaard, D. SAKELLARIOU and A. Pines, “*NMR spectroscopy in inhomogeneous B_0 and B_1 fields with non-linear correlation*”, J. Magn. Reson., **175**, 1 (2005).

35. R. W. Martin, R. C. Jachmann, D. SAKELLARIOU, U. G. Nielsen and A. Pines, “*High-Resolution Nuclear Magnetic Resonance Spectroscopy of Biological Tissues Using Projected Magic Angle Spinning*”, *Magn. Reson. Med.*, **54**, 253 (2005).
36. V. Demas, C. Meriles, D. SAKELLARIOU, S. Han, J. Reimer and A. Pines, “*Toward Ex Situ Phase-Encoded Spectroscopic Imaging*”, *Conc. Magn. Reson. B*, **29**, 137 (2006).
37. D. Topgaard and D. SAKELLARIOU, “*Diffusion damping during adiabatic z-rotation pulses for NMR spectroscopy in inhomogeneous fields*”, *J. Chem. Phys.*, **125**, 044503 (2006).
38. C. A. Meriles, D. SAKELLARIOU and A. H. Trabesinger, “*Theory of MRI in the presence of zero to low magnetic fields and tensor imaging field gradients*”, *J. Magn. Reson.*, **182**, 106 (2006).
39. R. C. Jachmann, D. R. Trease, L.-S. Bouchard, D. SAKELLARIOU, R. W. Martin, R. D. Schlueter, T. F. Budinger and A. Pines, “*Quadrupolar order shimming of permanent magnets using harmonic corrector rings*”, *Rev. Sci. Instrum.*, **78**, 035115 (2007).
40. D. SAKELLARIOU, G. Le Goff and J-F. Jacquinet, “*High resolution, high sensitivity NMR of nanoliter anisotropic samples by coil spinning*”, *Nature*, **447**, 694 (2007).
41. T. Charpentier, D. SAKELLARIOU, J. Virlet, F. S. Dzheparov and J-F. Jacquinet, “*Nuclear spin dynamics using time-dependent projection operators: Application to the saturation of dipolar order in slowly rotating samples*”, *J. Chem. Phys.*, **127**, 224506 (2007).
42. D. SAKELLARIOU and T. Charpentier, “*Shift anisotropy Tensors in Amorphous Natural Abundance Solids: high-resolution ²⁹Si CSA Distributions under very slow sample rotation*”, *Appl. Magn. Reson.*, **32**, 583 (2007).
43. D. Bregiroux, F. Audubert, T. Charpentier, D. SAKELLARIOU and D. Bernache-Assollant, “*Solid-state synthesis of monazite-type compounds LnPO₄ (Ln=La to Gd)*”, *Solid State Sciences*, **9**, 432-439 (2007).
44. J-F. Jacquinet and D. SAKELLARIOU, “*Microdétecteurs rotatifs en résonance magnétique nucléaire*”, *Techniques de l’ingénieur*, IN85 (2008).
45. J. A. Tang, L. Odell, P. M. Aguiar, B. E. G. Lucier, D. SAKELLARIOU and R. W. Schurko, “*Application of Static Microcoils for Solid-State Wideline NMR Spectroscopy of Quadrupolar Nuclei*”, *Chem. Phys. Lett.*, **466**, 227 (2008).
46. V. Demas, J. M. Franck, L. S. Bouchard, D. SAKELLARIOU, C. A. Meriles, R. Martin, P. J. Prado, A. Bussandri, J. A. Reimer and A. Pines, “*Ex situ magnetic resonance volume imaging*”, *Chem. Phys. Lett.*, **467**, 398 (2009).
47. P. M. Aguiar, J-F. Jacquinet and D. SAKELLARIOU, “*Experimental and numerical examination of eddy (Foucault) currents in rotating micro-coils: Generation of heat and its impact on sample temperature*”, *J. Magn. Reson.*, **200**, 6 (2009).

48. A. Sinanna, S. Bermond, A. Donati, P. Gros, C. Hugon, J-F. Jacquinet, M. Lakrimi, D. SAKELLARIOU, T. Schild and P. Tixador, “*Field Stabilization of an MRI Magnet Operating in Driven Mode*”, IEEE Trans. on Applied Superconductivity, **19**, 2301 (2009).
49. C. Hugon, J-F. Jacquinet and D. SAKELLARIOU, “*Measurements of magnetic field stability in inhomogeneous magnetic fields at low temperature*”, J. Magn. Reson., **202**, 1-8 (2010).
50. A. Wong, P. Aguiar and D. SAKELLARIOU, “*Slow magic-angle coil spinning: A high sensitivity and high-resolution NMR strategy for microscopic biological specimens*”, Magn. Reson. Med., **63**, 269-274 (2010).
51. C. Hugon, P. Aguiar, G. Aubert and D. SAKELLARIOU, “*Design, Fabrication and Evaluation of a Low-Cost Homogeneous Portable Permanent Magnet for NMR and MRI*”, Comptes Rendus Chimie, in press (2010).
52. A. Yuen, O. Lafon, T. Charpentier, M. Roy, F. Brunet, P. Berthault, D. SAKELLARIOU, B. Robert, S. Rimsky, F. Pillon, J-C. Cintrat, B. Rousseau, “*Measurement of Long-Range Interatomic Distances by Solid-State Tritium-NMR Spectroscopy*”, J. Am. Chem. Soc., in press (2010).

Patents

- International Patent 198341445.8: “Method to Improve Resolution of Two-Dimensional Heteronuclear Correlation Spectra in Solid-State NMR” (US Patent 6,184,683).
- International Patent (WO 2006/023208) “Low Field Magnetic Resonance Imaging”
- International Patents (WO 2007/020537) and (WO 2007/003218) ”Apparatus for high resolution NMR spectroscopy and/or imaging with an improved filling factor and rf amplitude amplitude”
- US Patent 6,674,282: “Method and Apparatus for High Resolution Ex-Situ NMR Spectroscopy”.
- International Patent (WO 2006/028588) “Nuclear Magnetic Resonance Detection in Inhomogeneous Magnetic Fields”
- International Patents (WO 2003/016951) and (WO 2002/082116) “Method and Apparatus for High Resolution Ex-situ NMR Spectroscopy”
- International Patent Application “Magnetized axisymmetric structures producing a homogeneous field with arbitrary orientation in its center”, Sakellariou, Hugon, Aubert (2009).
- International Patent Application “Magnetized structure producing a controlled magnetic field at a distance from its surface”, Sakellariou, Hugon, Aubert (2009).
- International Patent Application “Magnetized axisymmetric structure inducing a longitudinal field in its center”, Sakellariou, Hugon, Aubert (2009).

- International Patent Application “Magnetized axisymmetric structure inducing a longitudinal field or at an arbitrary angle in its center”, Sakellariou, Hugon, Aubert (2009).

International Presence

- 1998: Poster in the International Conference on Magnetic Resonance and Related Phenomena, ISMAR-AMPRERE, Berlin, Germany.
- 1999: Oral presentation and Poster in the 14th International Meeting on NMR Spectroscopy, Royal Society, Edinburgh, UK.
- 1999: Oral presentation and Poster in the 1st Alpine Conference on Solid-State NMR, Chamonix, France.
- 2000: Poster in the AMPERE Conference on Magnetic Resonance, Lisbon, Portugal.
- 2000: Poster in the AMPERE Summer School on Magnetic Resonance, Nafplio, Greece.
- 2001: Poster in the Gordon Conference on Magnetic Resonance, Rhode Island, USA.
- 2001: Poster in the 43rd Rocky Mountain Conference on Analytical Chemistry, Denver, Colorado, USA.
- 2001: Oral presentation and poster in the 2nd Alpine Conference on Solid-State NMR, Chamonix, France.
- 2002: Poster in the 43rd ENC - Experimental NMR Conference, Asilomar, California, USA.
- 2002: Invited talk, Chemistry department, University of Crete, Greece.
- 2002: Invited talk, Institute of Structural Biology, CEA Grenoble, France.
- 2003: Invited talk, Department of Material Sciences, CEA Paris, France.
- 2003: Poster in the 3rd Fast Field Cycling Conference, Torino, Italy.
- 2003: Invited talk, Department of Material Sciences, University of Milan, Milan, Italy.
- 2003: Poster in the 10th Chianti Workshop on Magnetic Resonance, Pisa, Italy.
- 2003: Poster, Gordon Conference on Magnetic Resonance, Newport, USA.
- 2004: Invited talk, 7th Magnetic Resonance in Porous Media, Paris, France. “NMR in Rotating Magnetic Fields Magic Angle Field Spinning”
- 2004: Poster, EENC/AMPERE meeting, Lille, France.
- 2004: Invited talk, 4th Colloquium on Mobile NMR, Aachen, Germany. “High Resolution Ex-Situ NMR and MRI”

- 2005: Oral presentation, Bodenhausen Lab, ENS - Université Pierre et Marie Curie, Paris, France.
“X-treme NMR”
- 2005: Invited talk, EUROMAR 2005, Veldhoven, The Netherlands.
“Solid-State NMR of (Radioactive) Materials”
- 2005: Poster, 4th Alpine Conference on Solid-State NMR, Chamonix, France.
- 2005: Oral Presentation at the ACTINET Meeting, University of Cambridge, UK.
“Towards High-Resolution Solid-State NMR of Radioactive Materials”
- 2005 Invited talk, CMRR workshop on MRI, University of Minnesota, USA.
“Ex-situ NMR and MRI”
- 2006 Oral Presentation at the Réseau RMN Structural dans le Bassin Parisien, Institut Lavoisier de Versailles, France.
“Corrélation des Déplacements Chimiques Isotropes et Anisotropes du ^{29}Si de matériaux Cristallins et Amorphes en Rotation Très Lente”
- 2006 Invited talk, 1st Radiological NMR Spectroscopy Meeting, Pacific Northwest National Laboratory, Richland, WA, USA.
“Rotating Micro-coils in Nuclear Magnetic Resonance of Radioactive Solids”
- 2006 Invited talk at the Journeys on Industrial NMR, Orleans, France.
“Micro-bobines en rotation: Nouveaux développements théoriques et technologiques”
- 2006 Invited talk, 1st Annual Symposium on Magnetic Resonance in Material Science - MRS Symposium, Boston, USA.
“Rotating Micro-detectors for Nuclear Magnetic Studies of (Radioactive) Materials”
- 2007 Invited talk at the Spiess Laboratory, Max Planck Institute for Polymer Research, Mainz, Germany.
“Approaches towards NMR Studies of Radioactive Materials”
- 2007 Invited talk at the Unité de Recherche en Résonance Magnétique Médicale, University of Paris Sud, France.
“RMN / IRM Ex-Situ et Développements Technologiques vers des Micro-détecteurs Tournants”
- 2007 Invited talk, 48th Experimental NMR Conference, Florida, USA.
“Rotating micro-coils in Nuclear Magnetic Resonance”
- 2007 Invited talk, Bruker User’s Meeting, Colorado, USA.
“Approaches towards solid-state NMR of hazardous materials”
- 2007 Invited talk, 49th Rocky Mountain Conference on Analytical Chemistry, Colorado, USA.
“High sensitivity, high-resolution NMR of anisotropic nanolitre samples by coil spinning”

- 2007 Invited talk, 16th Conference of the International Society of Magnetic Resonance, Kenting, Taiwan.
“Rotating Micro-coils in Nuclear Magnetic Resonance”
- 2007 Invited talk, Stebbin’s Lab, Stanford, California, USA.
“Methodologies for solid-state NMR of advanced materials ”
- 2007 Invited talk, Weitekemp Lab, CalTech, California, USA.
“Methodologies for solid-state NMR of advanced materials ”
- 2007 Oral Presentation, 5th Alpine Conference on Solid-State NMR, Chamonix, France.
“Rotating Micro-coils in Nuclear Magnetic Resonance”
- 2008 Poster, 49th Experimental NMR Conference, Asilomar, California, USA.
- 2008 Invited talk, Varian, Palo Alto California, USA.
“High sensitivity, high-resolution NMR of anisotropic nanolitre samples by coil spinning”
- 2008 Invited talk, CEA Neurospin, Saclay, France.
“Instrumentation RMN et IRM: Petit, Portable et Vivant”
- 2008 Invited talk, 1st International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems, Halkidiki, Greece.
“Rotating microcoils in Nuclear Magnetic Resonance”
- 2008 Invited talk, Inauguration of the ”Centre Européen de RMN à Très Hauts Champs”, Lyon, France.
“Keep on spinning: Particles, Samples, Fields, Coils and Magnets”
- 2009 Invited talk, 3rd Symposium of JFFoS, Japan.
“Micro-detection in High-field NMR of mass-limited samples and Low-field portable applications of Magnetic Resonance”
- 2009 Poster, 50th Experimental NMR Conference, Asilomar, California, USA.
“Miniaturization of Coils and Magnets: New developments in Magic Angle Coil Spinning and Portable NMR/MRI magnets”
- 2009 Invited talk, New York Structural Biology Center, USA.
“Micro-detection in High field NMR of mass-limited samples and Low field portable applications of Magnetic Resonance Imaging and Spectroscopy”
- 2009 Oral presentation, 10th International Conference on Magnetic Resonance Microscopy, Montana, USA.
“Permanent Magnets for NMR and MRI”
- 2009 Invited talk, FZJ-CEA Symposium, Saclay, France.
“Everything has to spin”
- 2009 Invited talk, University of Stockholm, Sweden.
“Micro-detection in High-field NMR of mass-limited samples and Low-field portable applications of Magnetic Resonance”

- 2009 Invited talk, University of Lund, Sweden.
“Micro-detection in High-field NMR of mass-limited samples and Low-field portable applications of Magnetic Resonance”
- 2010 Poster, 4th ESMI Winter School TOPIM 2010, on Imaging Systems Biology, Piemonte, Italy.
“Magnetic Resonance Imaging & Spectroscopy using Spinning Coils and Portable Magnets”
- 2010 Invited talk, 48th Experimental NMR Conference, Florida, USA.
“One-sided magnets and spinning coils for magnetic resonance spectroscopy and imaging”
- 2010 Oral presentation, ISMRM - ESMRMB Joint annual meeting, Stockholm, Sweden.
title: TBA
- 2010 Invited talk, Joint EUROMAR and 17th ISMAR Conference, USA.
title:TBA