

Dr. Jean-Marc ZANOTTI

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99 [Publications](#)

H Factors: Web of Science 27 ([Bibliometrics](#))

Google Scholar 31

Average citation by paper: 31

22 invited conferences

[Laboratoire Léon Brillouin](#) (CEA-CNRS)

C.E.A. Saclay

91191 Gif-sur-Yvette Cedex France

[Instrument responsible](#) at [Inst. Laue Langevin](#)

71 Avenue des Martyrs, 38000 Grenoble, France

☎: +33 (0)4.76.20.75.82

Email: jmzanotti@cea.fr

CEA Research Director and Fellow

Physics at interfaces and under nanometric confinement

Referent for the LLB outstations

Academic qualifications:

2011:

Habilitation à Diriger des Recherches

[Nanometric confinement of molecular fluids: from interfacial interactions to one dimensional transport properties](#)

Université Pierre et Marie Curie- Paris VI (France).

1994-1997:

PhD in Physics

Structure and dynamics of interfacial water

Université Paris XI- Orsay (France).

Scientific experience:

2004-2016

and

1997-2000:

Commissariat à l'Énergie Atomique

Laboratoire Léon Brillouin (CEA-CNRS)

French neutron scattering Expertise. Saclay (France).

Physicist:

- Designer, Scientific project leader and instrument responsible of [SHARP](#) then [SHARPER](#) ([video](#)) at [ILL](#).

- Research fields: dynamics of disordered systems: water, biological systems and polymers and electrolytes (bulk, interfaces and confinement).

2002-2003:

Argonne National Laboratory (IL, USA)

Visiting scientist at the **Intense Pulsed Neutron Source (IPNS)**

Instrument Scientist on the inverted geometry QENS spectrometer.

1993-1997:

Commissariat à l'Énergie Atomique

Laboratoire Léon Brillouin (CEA-CNRS)

PhD thesis:

« Structure and Dynamics of interfacial water. Role of hydration water in globular proteins dynamics ».

Scientific Award:

2008:

[Price Schlumberger of the French Academy of Sciences](#)

for the results on confined and interfacial water.

Patents:

2010:

Mineral electrolyte membrane for electrochemical devices. [WO 2012/013603](#).

2015:

Carbon nanotubes membrane for electrochemical devices. [WO/2016/151142](#).

2020:

CNT based composite membrane for electrolyte confinement. [FR2002224](#).

Scientific expertise:

2010-2015: Responsible of the [Soft Complex Matter Scientific axis](#) of LLB.
23 Researchers, 8 Post-Docs and 16 PhD

Member of selection panels of several Neutron Scattering Facilities:

- 2007-2010: ILL (Grenoble, France): Structure and Dynamics of Soft Condensed Matter.
- NIST center for Neutron Research (MD, USA), SNS (TN, USA).
- Bragg Institute (ANSTO), Sydney, Australia.
- J-PARC, Nakagun, Ibaraki, Japan.

Teaching experiences:

- 2004: School of the French Neutron Society: "Neutron and Biology".
- 2003-2007: Higher European Research Courses for Users of Large Experimental Systems ([HERCULES](#)): ToF inelastic neutron scattering, Practicals.
- 2003-2008: [FANS](#) du LLB, Practicals onToF inelastic neutron scattering.
- 2016: French Swedish School on Neutron scattering: "Polymer dynamics"
- 2018 & 2019: "Soft Matter" Master II, Grenoble: "Neutron and Polymer dynamics"

Supervision of 6 PhD students:

- 2005-2008: K. Lagrené (CFR) / PhD advisor: M. Daoud (CEA/SPEC)
"Polymer dynamics under uni-axial confinement".
[2009 PhD Price of the French Neutron Society](#).
- 2007- 2010: G. Chahine / PhD advisor: Dr. R. Lefort (University of Rennes I):
"Influence of confinement on liquid crystals dynamics".
- 2013- 2016: F. Ferdeghini (CFR)
"Ionic Liquids under 1D nanometric confinement".
- 2019- 2022 : C. Pinchart (Thèse Phare CEA DRF/DRT-LITEN)
"Lithium Metal Polymer Batteries: Towards Operation at Ambient Temperature".
- 2019- 2022 N. Modesto (Thèse Prim|80 CNRS)
"Smart Composite Membranes for Lithium-Metal-Polymer Batteries".
- 2024- Aaron Zagoury (ANR)
"1D conduction of electrolytes in a polymer matrix".

Supervision of 8 Post-Docs:

- 2006-2008: N. Malikova,
Proton conduction within membranes for Solid Oxide Fuel Cells (Perovskites).
- 2006-2008: S. Mitra,
Visiting Scientist from Bhabha Atomic Research Center, Mumbai, India.
- 2012-2013: K. Panesar,
Dynamics of ionic liquids under confinement (NMR and Neutron Scattering)
- 2014-2018: Q. Berrod,
Ionic Liquids confined in 1D carbon Nanotube Membranes.
- 2016-2018: R. de Oliveira, Neutron Imaging-NMR coupling.
- 2018-2019: A. Bélimé, Mineral Membrane for lithium batteries.
- 2024- : H. Khoder , single CNT RNA sequencing.
- 2025- : X. Hébert , Neutron-THz coupling.

Partner in 4 European Projects:

- 2005-2007: Marie Curie outgoing Fellowship (IPNS-LLB)
N. Malikova
Proton conduction within membranes for Solid Oxide Fuel Cells (Perovskites).
- 2016-2017: Eurotalents (CEA & Marie-Curie outgoing Fellowship)
Q. Berrod
Collaboration with Berkeley Energy Storage Group (V. Battaglia)
Electrochemical performances of CNT based Electrodes
- 2015-2018: WP of a Science and Innovation with Neutrons in Europe in 2020 Program
Collaboration with CEA/DRF/IRAMIS/NIMBE (D. Sakellariou)
Neutron Imaging and NMR online coupling.
- 2023-2026: WP of a M-ERANET project: NAMEAS
Collaboration with CEA/DRF/IRIG/SyMMEs (S. Lyonnard & Q. Berrod)
Dynamics of water in asymmetric anion-exchange membrane for Fuel Cells.

Partner in 4 ANR Projects:

- 2005-2008: BIONANOCOMP: Biocompatible composites
Principal Investigator: J.-P. Salvetat (Orléans University, France).
- 2006-2010: LISSIL: Ionic liquids under confinement
Principal Investigator: J. le Bideau (IMN, Nantes, France).
- 2010-2013: TEMPLDISCO: Liquid crystals under confinement
Principal Investigators: D. Morineau, R. Lefort (Rennes University, France).
- 2024- : 2POLI : 1D conduction of electrolytes in a polymer matrix.
Principal Investigators: T. Phan (Institut de Chimie Radicalaire, Marseille, France).

Principal Investigator of CNRS MITI Project:

- 2019-2022: AMPERE
Collaboration with
Institut de Chimie Radicalaire (D. Gigmes & T. Phan)
CEA/DRF/IRIG/SyMMEs (Q. Berrod).
Smart CNT membrane for all-solid-state lithium batteries.

Principal Investigator 5 CEA funded projects and Partner of 1

- 2012-2014: DSM "Idées Energie":
CONFLUENT: 1 D confinement of Ionic Liquids in alumina membranes.
- 2014-2016: Programme transverse Nouvelles Technologies pour l'Energie:
PILPOIL: 1 D confinement of Ionic Liquids in CNT membranes.
- 2019-2022: Bottom-Up program:
LEONARD: Single pore conduction of electrolytes in CNT membranes.
- 2024-2026: Programme Transverse de Compétences & Focus Biomarqueurs
YESWECAN: micro RNA Sequencing by CNT membrane.
- 2024- : Partner of Bottom-Up program: project.
MOKA : Water dynamics in biomass materials.
- 2024- : « Audace ! » project :
Neutron-THz coupling.

Partner of 1 WP of Programmes et équipements prioritaires de recherche (PEPR)

- 2022-2027: WP of the PEPR H2 PEFMC-95
Collaboration with CEA/DRF/IRIG/SyMMEs (S. Lyonnard & Q. Berrod)
Dynamics of water anion-exchange membrane for Fuel Cells running at 95°C.

15 Juries:

05/07/2005: M.-A. Néouze, Université de Montpellier, PhD Thesis.
03/10/2005: A. Cadène, Université Paris VI, PhD Thesis.
21/10/2008: K. Lagrené, Université Paris Sud - Orsay, PhD Thesis.
17/07/2009: M. Martinez, INPG Grenoble, PhD Thesis.
15/11/2010: G. Chahine, Université de Rennes I, PhD Thesis.
06/12/2012: R. Sood, INPG, PhD Thesis.
21/02/2014: E. Farhi (ILL), Habilitation à Diriger des Recherches.
17/10/2014: G. Euzen (CEA/DEN/Osiris), Diplôme d'ingénieur du CNAM.
20/10/2015: F. Ferdeghini, Université Paris VI, PhD Thesis.
21/06/2017: A. Ferrand, Université d'Aix-Marseille, PhD Thesis.
05/10/2018: A. Christoulaki, Sorbone Université, PhD Thesis. Referee.
09/11/2018: M. Baum, Université de Montpellier, PhD Thesis.
13/12/2022: A. D'Angelo, Université Paris-Saclay, PhD Thesis.
15/03/2024: H. Srinivasan, Bhabha Atomic Research Center, India, PhD Thesis, Referee.
18/12/2024: M. Abdelsater, Université Paris-Saclay, , PhD Thesis, Referee.

4 Organization committees of meetings and conferences:

- 2008: Member of the local organizing committee of
"Horizons in Hydrogen Bond Research",
Paris September 14-18 2009.
- 2009: Member of the local organizing committee of
"7^{èmes} rencontres de St-Aubin LLB-Soleil": Confinement et nano-systèmes,
Saint-Aubin, March 12-13 2009.
- 2016: International Advisory Committee of
the International workshop on inelastic neutron spectrometers.
Berlin, September 8-9 2016.
- 2025: Journées de la Neutronique
Sevrier, June 2-5 2025.

22 Invited Conferences

1- **J.-M. Zanotti**

A unified approach to the dynamics of a bulk polymer melt. Extension to the regime of nano-confinement.

Quasi-Elastic Neutron Scattering 2006 conference (QENS2006).

June 14-17 2006, Bloomington, In, USA.

2- K. Lagrené, M. Daoud, **J.-M. Zanotti**

Polymer dynamics under quasi-uniaxial confinement. The case of PEO in porous alumina.

Dynamics of Soft Matter 2008.

December 4-6 2008, Boston, MA, USA.

3- **J.-M. Zanotti**, P. Judeinstein, J. Farrington, S. Greenbaum and M.C. Bellissent-Funel

Low temperature phase transitions of interfacial water. Connection to protein dynamics.

6th International Discussion Meeting on Relaxations in Complex Systems.

August 30- September 5 2009, Rome, Italy.

4- K. Lagrené, **J.-M. Zanotti**, M. Daoud, P. Judeinstein, K. Saalwaechter, B. Farago, P. Fouquet, J. Ollivier, M. Maccarini

Polymer dynamics under quasi-uniaxial confinement. The case of PEO in porous alumina.

Trends and perspectives in Neutron Scattering in Soft-Matter.

October 5-8 2009, Tuzting, Germany.

5- S. Rodrigues, **J.-M. Zanotti**

A new ToF instrument at LLB: the Fa# project.

Trends in Cold Neutron Time-of-Flight Spectroscopy.

November 26-28 2009, Grenoble, France.

6- K. Lagrené, **J.-M. Zanotti**, M. Daoud, P. Judeinstein, K. Saalwaechter, B. Farago, P. Fouquet, J. Ollivier, M. Maccarini

Polymer dynamics under quasi-uniaxial confinement. The case of PEO in porous alumina.

2009 Materials Research Society Fall Meeting / Multiscale Dynamics in Confining Systems.

November 30 –December 3 2009, Boston, MA, USA.

7- K. Lagrené, **J.-M. Zanotti**, M. Daoud

Polymer dynamics under confinement: a neutron multi-scale approach.

Workshop: Multi-scale dynamics under the nanoscope.

March 23-28 2011, MIT, Boston, MA, USA.

8- **J.-M. Zanotti**

Physique du confinement nanométrique recherche amont et valorisation : apports de la diffusion de neutrons.

Journées de la Diffusion Neutronique.

6-10 juin 2011, Batz-sur-Mer, France.

9- K. Lagrené, **J.-M. Zanotti**, M. Daoud, P. Judeinstein, B. Farago,
Polymer dynamics: does confinement induce a corset effect?
10th International Conference on Quasi-Elastic Neutron Scattering.
September 30 –October 12 2012, Nikko, Japan.

10- K. Lagrené, **J.-M. Zanotti**, M. Daoud, P. Judeinstein, B. Farago,
Polymer dynamics under severe confinement.
2nd International Symposium on Neutron Scattering.
January 14 – 17 2013, Mumbai, India.

11- **J.-M. Zanotti**,
Evidences for the presence of two distinct phases in interfacial water.
7th International Discussion Meeting on Relaxations in Complex Systems (8th IDMRCS).
July 21 – 26 2013, Barcelona, Spain.

12- **J.-M. Zanotti**,
Interfacial water: structure, dynamics and relevance to the low critical point of water.
Annual Meeting of the European Molecular Liquids Group and the Jap. Mol. Liquids Group
September 8 – 12, 2013, Lille, France.

13- F. Ferdeghini, Q. Berrod, **J.-M. Zanotti**, P. Judeinstein,
Ionic liquids in Bulk and under 1D confinement.
XXV Sitges Conference on Statistical Mechanics.
June 6-10 2016, Barcelona, Spain

14- **J.-M. Zanotti**,
Polymer dynamics under severe 1D confinement.
A multiscale neutron study from the THz to the ms.
Complementarity between Optics and Neutron spectroscopy in the THz domain – SON2017
June 19-20 2017, Grenoble, France.

15- **J.-M. Zanotti**
IN6-SHARP: towards a new cold neutron spectrometer at ILL.
Illustration of the capabilities in dynamics of Ionic liquids under 1D nanometric confinement.
24^{èmes} Journées de la Diffusion Neutronique.
May 2-4 2018, Carqueiranne, France

16- **J.-M. Zanotti**
Ionic Liquids: bulk vs 1D CNT confinement. Towards better batteries?
International Conference on Quasi-Elastic Neutron Scattering.
July 15-20 2018, Hong-Kong.

17- **J.-M. Zanotti et al.**
LLB CRG Inelastic instruments at ILL: from IN6 to Sharp, then Sharp+.
Journées de la diffusion Neutronique.
September 20-22 2021.

18- **J.-M. Zanutti et al.**

A new LLB CRG Inelastic instruments at ILL: Sharp+.

Journées de la Fédération Française de la neutronique.

September 20-22 2021.

19- **C. Pinchart, N. Modesto, Q. Berrod, P. Judeinstein, J.-M. Zanutti**

Ionic Liquids under 1D CNT confinement.

ACS 2022 Spring National Meeting.

March 20-24 2022, San Diego, CA, USA.

20- **C. Pinchart, N. Modesto, Q. Berrod, P. Judeinstein, J.-M. Zanutti**

Ionic Liquids in bulk and under 1D CNT confinement.

International Conference on Quasi-Elastic Neutron Scattering.

May 27-23 2022, San-Sebastian, Spain.

21- **C. Pinchart, N. Modesto, Q. Berrod, P. Judeinstein, J.-M. Zanutti**

Ionic Liquids: bulk vs 1D CNT confinement. Towards better batteries?

DYNAmics of FUNctionnal Materials (DYNAFUN)

September 11-15 2022, Annecy (France).

22- **J.-M. Zanutti**

SHARPER: an update.

Journées de la Fédération Française de la Diffusion Neutronique (2 FDN)

November 20-21 2024, Grenoble (France).

Dr. Jean-Marc Zanolli

Publication List

[Google Scholar](#)

H Factors: Web of Science 27 & Google Scholar 32

99 publications / 3040 citations

Average Citations by article: 31

[Full Bibliometrics](#)

- 99- J.-M. **Zanolli**, S. Rodrigues, P. Lavie, P. Permingeat, B. Homatter & Q. Berrod, *The time-focusing neutron spectrometer SHARP*, Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Vol. 1084, 171196 (2026).
- 98- N. Modesto, C. Pinchart, M. Abdel Sater, M. Appel, P. Fouquet, A. Tengattini, M. Russina, V. Grzimek, G. Günther, P.-H. Jouneau, B. Coasne, D. Lairez, P. Judeinstein, R. Ramos, D. Gigmes, T. N.T. Phan, Q. Berrod & J.-M. **Zanolli**, 1D nanoporous membrane boosts the ionic conductivity of electrolytes, *Energy Storage Materials* 75:104045 (2025).
- 97- Mozhdhehi, P. Lenz, S. Gries, S.-M. Meinert, R. Lefort, J.-M. **Zanolli**, Q. Berrod, M. Appel, M. Busch, P. Huber, M. Fröba & D. Morineau, *Colossal Effect of Nanopore Surface Ionic Charge on the Dynamics of Confined Water*, *J. Phys. Chem. C* 129, 18311–18324 (2025).
- 96- W. Kellouai, P. Judeinstein, M. Plazanet, J.-M. **Zanolli**, Q. Berrod, M. Drobek, A. Julbe, B. Coasne, Free volume theory of self-diffusion in zeolites: Molecular simulation and experiment, *Microporous and Mesoporous Materials*, 381, 113305, (2025).
- 95- H. Khoder, J.-M. **Zanolli**, J. Ollivier, X. Le Goff, R. Podor, D. Rébiscoul, *Anisotropy of water dynamics confined in model silica material*, *Microporous and Mesoporous Materials*, 359, 112637 (2023).
- 94- F. Foglia, Q. Berrod, A. J. Clancy, K. Smith, G. Gebel, V. García Sakai, M. Appel, J.-M. **Zanolli**, Madhusudan Tyagi, Najet Mahmoudi, Thomas S Miller, John R Varcoe, Arun Prakash Periasamy, Daniel JL Brett, Paul R Shearing, S. Lyonnard, P. F. McMillan, *Disentangling water, ion and polymer dynamics in an anion exchange membrane*, *Nature Materials*, 21 (5), 555-563 (2022).
- 93- , J. Wolanin, L. Michel, D. Tabacchioni, J.-M. **Zanolli**, J. Peters, I. Imaz, B. Coasne, M. Plazanet and C. Picard, *Heterogeneous Microscopic Dynamics of Intruded Water in a Superhydrophobic Nanoconfinement: Neutron Scattering and Molecular Modeling*, *The Journal of Physical Chemistry B*, 125, 10392 (2021).
- 92- , F. Foglia, S. Lyonnard, V. García Sakai, Q. Berrod, J.-M. **Zanolli** G. Gebel, A. J. Clancy, P. F. McMillan, *Progress in neutron techniques: towards improved polymer electrolyte membranes for energy devices*, *J. Phys.: Condensed Matter*, 33, 264005 (2021).
- 91- J. Wolanin, J. Giraud, C. Payre, M. Benoit, C. Antonelli, D. Quemener, I. Tahiri, M. Vandamme, J.-M. **Zanolli** and M. Plazanet, *Oedometric-like setup for the study of water transport in porous media by quasi-elastic neutron scattering*, *Review of Scientific Instruments*, 92, 024106 (2021).

- 90- A. Jani, M. Busch, J. B. Mietner, J. Ollivier, M. Appel, B. Frick, J.-M. **Zanotti**, A. Ghoufi, P. Huber, M. Fröba and D. Morineau, *Dynamics of water confined in mesopores with variable surface interaction*, J. Chem. Phys., 154, 094505 (2021).
- 89- J. Puibasset, P. Judeinstein and J.-M. **Zanotti**, Bulk supercooled water versus adsorbed films on silica surfaces: specific heat by Monte Carlo simulation, Phys. Chem. Chem. Phys., 23, 2275–2285 (2021).
- 88- S. Le Caër, M.-C. Pignié, Q. Berrod, V. Grzimek, M. Russina, C. Carteret, A. Thill, J.-M. **Zanotti** and J. Teixeira, *Dynamics in hydrated inorganic nanotubes studied by neutron scattering: towards nanoreactors in water*, Nanoscale Adv., 3, 789–799 (2021).
- 87- J. Puibasset, P. Judeinstein, J.-M. **Zanotti**, Molecular simulation study of the heat capacity of metastable water between 100 and 300 K, *Molecular Simulation*, 45, 462-465 (2019).
- 86- R. de Oliveira-Silva, A. Bélime, C. Le Coeur, A. Chennevière, A. Helary, F. Cousin, P. Judeinstein, D. Sakellariou, J.-M. **Zanotti**, Coupling NMR to SANS: Addressing at once structure and dynamics in soft matter, *Journal of Neutron Research*, 21, no. 3-4, 155-166 (2019).
- 85- J. Puibasset, P. Judeinstein and J.-M. **Zanotti**, Molecular simulation study of the heat capacity of metastable water between 100 and 300 K, *Molecular Simulation*, 1-4, (2018).
- 84- Q. Berrod, K. Lagrené, J. Ollivier and J.-M. **Zanotti**, Inelastic and Quasi-Elastic Neutron Scattering. Application to Soft-Matter, *European Physical Journal Web of Conferences*, 188, 05001 (2018).
- 83- F. Ferdeghini, Q. Berrod, J.-M. **Zanotti**, P. Judeinstein, V. Garcia Sakai, O. Czakkel, P. Fouquet and D. Constantin, *Nanostructuration of ionic liquids: impact on the cation mobility. A multi-scale study*, Nanoscale, 9, 1901-1908 (2017).
- 82- S. Mitra, C. Cerclier, Q. Berrod, F. Ferdeghini, R. de Oliveira-Silva, P. Judeinstein, J. le Bideau, J.-M. **Zanotti**, Ionic Liquids Confined in Silica Ionogels: Structural, Thermal, and Dynamical Behaviors, *Entropy*, 19, 140 (2017).
- 81- X- F. Ferdeghini, Q. Berrod, J.-M. **Zanotti**, P. Judeinstein, D. Lairez, V. Garcia Sakai, O. Czakkel, P. Fouquet and D. Constantin, Scale-dependence of Ionic Liquids viscosity, *Scientific Report*, 7, 2241 (2017).
- 80- M. Bonetti, J.-M. **Zanotti**, A simple AC calorimeter for specific heat measurement of liquids confined in porous materials: a study of hydrated Vycor, *Review of Scientific Instruments*, 87, 094903 (2016).
- 79- J.-M. **Zanotti**, P. Judeinstein, S. Dalla-Bernardina, G. Creff, J.-M. Brubach, P. Roy, M. Bonetti, J. Ollivier, D. Sakellariou, M.-C. Bellissent-Funel, Competing coexisting phases in 2D water, *Scientific Reports*, 6, 25938 (2016).
- 78- Q. Berrod, F. Ferdeghini, P. Judeinstein, N. Genevaz, R. Ramos, A. Fournier, J. Dijon, J. Ollivier, S. Rols, D. Yu, J.-M. **Zanotti** Enhanced ionic liquid mobility induced by confinement in 1D CNT membranes, *Nanoscale*, 8, 7845-7848 (2016).
- 77- A. Jarry, O. Joubert, E. Suard, J.-M. **Zanotti**, E. Quarez, Location of deuterium sites at operating temperature from neutron diffraction of Ba_{0.6}Ti_{0.2}Yb_{0.2}O_{2.6-n}(OH)_{2n}, an electrolyte for proton-solid oxide fuel cells, *Physical Chemistry Chemical Physics*, 18, 15751-15759 (2016).

- 76- C. Cerclier, J.-M. **Zanotti**, J. Le Bideau, Ionogel based on biopolymer–silica interpenetrated networks: dynamics of confined ionic liquid with lithium salt, *Physical Chemistry Chemical Physics*, 17, 29707-29713 (2015.)
- 75- E. Secret, C.-C. Wu, A. Chaix, A. Galarneau, P. Gonzalez, D. Cot, M. Sailor, J. Jestin, J.-M. **Zanotti**, F. Cunin, Control of the Pore Texture in Nanoporous Silicon via Chemical Dissolution, *Langmuir*, 31, 29, 8121-8128 (2015).
- 74- S. Rols, D. Pontiroli, C. Cavallari, M. Gaboardi, M. Aramini, D. Richard, M. Johnson, J.-M. **Zanotti**, E. Suard, M. Maccarini, Structure and dynamics of the fullerene polymer Li₄C₆₀ studied with neutron scattering, *Physical Review B*, 92, 014305 (2015).
- 73- S. Dalla Bernardina, F. Alabarse, A. Kalinko, P. Roy, M. Chapuis, N. Vita, R. Hienerwadel, C. Berthomieu, P. Judeinstein, J.-M. **Zanotti**, New experimental set-ups for studying nanoconfined water on the AILES beamline at SOLEIL, *Vibrational Spectroscopy*, 75, 154-161 (2014).
- 72- A. Slodczyk, P. Colomban, N. Malikova, O. Zaafrani, S. Longeville, J.-M. **Zanotti**, O. Lacroix, B. Sala, Bulk protons in anhydrous perovskites—neutron scattering studies, *Solid State Ionics*, 252, 7-11 (2013).
- 71- K.S. Panesar, P. Judeinstein, J.-M. **Zanotti**, Selective deuteration reveals interference caused by side-chain dynamics on measurements of self-diffusion in ionic liquid cations, *Physical Society of Japan*, 82, SA013 (2013).
- 70- S. Devineau, J.-M. **Zanotti**, C. Loupiac, L. Zargarian, F. Neiers, Fabrice, S. Pin, J.-P. Renault, Myoglobin on silica: a case study of the impact of adsorption on protein structure and dynamics, *Langmuir*, 29, 13465-13472 (2013).
- 69- M. Bastos, N. Alves, S. Maia, P. Gomes, A. Inaba, Y. Miyazaki and J.-M. **Zanotti**, Hydration water and peptide dynamics – two sides of a coin. A neutron scattering and adiabatic calorimetry study at low hydration and cryogenic temperatures, *Phys. Chem. Chem. Phys.*, 15, 16693-16703 (2013).
- 68- K. S. Panesar, C. Hugon, G. Aubert, P. Judeinstein, J.-M. **Zanotti** and D. Sakellariou, Diffusion of nano-channel confined ionic liquids measured using a novel one-sided NMR tomography, *Microporous and Mesoporous Materials*, 178, 79–83 (2013).
- 67- J.-M. **Zanotti**, K. Lagrené, N. Malikova, P. Judeinstein, K. Panesar, J. Ollivier, S. Rols, M. Mayne-L'Hermite, M. Pinault and P. Boulanger, Nanometric confinement: toward new physical properties and technological developments. Relevance and potential contributions of neutron scattering. *European Physical Journal*, 213, 129-148 (2012).
- 66- I. Matar Briman, D. Rébiscoul, O. Diat, J.-M. **Zanotti**, P. Jollivet, P. Barboux, S. Gin, Impact of pore size and pore surface composition on the dynamics of confined water in highly ordered porous silica, *J. Phys. Chem. C*, 116, 7021–7028 (2012).
- 65- S. Combet, J.-M. **Zanotti**, Further evidence that hydration water is the main driving force of protein dynamics: a neutron scattering study on perdeuterated C-phycocyanin, *PCCP*, 14, 4927-34 (2012).
- 64- J.-M. **Zanotti**, S. Combet, S. Klimko, S. Longeville and F. Coneggo, Present and Future of the Quasi-Elastic Neutron Spectroscopy at LLB. More than Simply Samples: Devices, *Neutron News*, 22, 24-27 (2011).

- 63- D. Champion, C. Loupiac, D. Russo, D. Simatos, J.-M. **Zanotti**, Dynamic and sub-ambient thermal transition relationships in water–sucrose solutions, *Differential scanning calorimetry and neutron scattering analysis*, J. Therm. Anal. Calorim., 104, 365–374 (2011).
- 62- S. Combet, J.-M. **Zanotti**, M.-C. Bellissent-Funel, *Temperature and hydration-dependent internal dynamics of stripped human erythrocyte vesicles studied by incoherent neutron scattering*, Biochimica et Biophysica Acta, 1810, 202–210 (2011).
- 61- K. Lagrené, J.-M. **Zanotti**, M. Daoud, B. Farago and P. Judeinstein, Large-scale dynamics of a single polymer chain under severe confinement, Phys. Rev. E., 81, 060801 (2010).
- 60- K. Lagrené, J.-M. **Zanotti**, M. Daoud, B. Farago and P. Judeinstein, Dynamical behavior of a single polymer chain under nanometric confinement, Eur. Phys. J. ST, 189, 231-237 (2010).
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