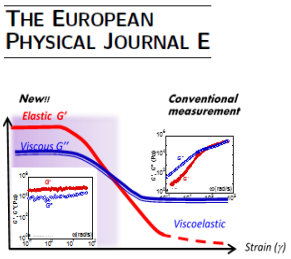
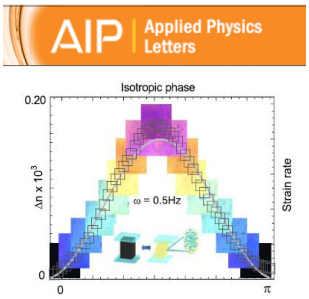
PUBLICATIONS

ORCID ID: 0000-0002-0164-1155

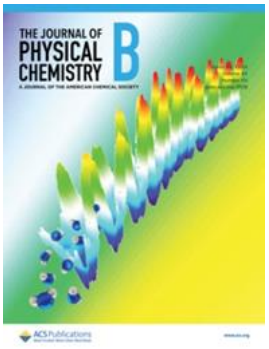
On March 2023: 167 publications in peer-reviewed journals (including 5 chapters), 3 175 citations, 19 articles with more than 50 citations; 174 oral communications including 32 invited conferences, h-index: 31



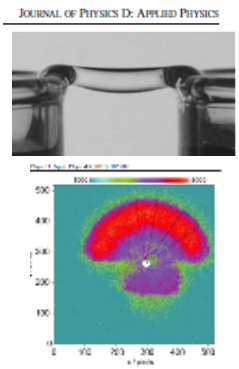
19, 77–85 (2006)
FOCUS POINT



Low frequency birefringence in the liquid phase of liquid crystals



Low frequency thermal wave in a liquid



Non-hydrodynamic state of "liquid" water

PEER-REVIEWED JOURNALS :

1. "Backbone conformation study of a side-chain polyacrylate through a reentrant polymorphism"
L. Noirez, P. Keller, P. Davidson, F. Hardouin, J.P. Cotton
J. Phys France 49 (1988) 1993.

2. "Backbone conformation of a mesogenic polyacrylate"
L. Noirez, J.P. Cotton, F. Hardouin, P. Keller, F. Moussa, G. Pépy, C. Strazielle,
Macromolecules 21 (1988) 2889.

3. "Liquid crystal polymers: a smal angle neutron scattering study"
F. Hardouin, L. Noirez, P. Keller, M. Lambert, F. Moussa, G. Pépy
Mol. Cryst. Liq. Cryst. 155 (1988) 389.

4. "Liquid crystal polymers: studies of labelled parts by neutron scattering"
G. Pépy, J.P. Cotton, F. Hardouin, P. Keller, M. Lambert, F. Moussa, L. Noirez,
Makromol. Chem., Makromol. Symp. 15 (1988) 251.

5. "Small-angle neutron scattering from liquid crystalline main chain polyesters"
J.F. d'Allest, P. Sixou, A. Blumstein, R.B. Blumstein, J. Teixeira, L. Noirez
Mol. Cryst. Liq. Cryst. 155 (1988) 581.

6. "Experimental evidence of chain extension at the transition temperature of a nematic polymer"
J.F. d'Allest, P. Maïssa, A. ten Bosch, P. Sixou, A. Blumstein, R.B. Blumstein, J. Teixeira, L. Noirez
Phys. Rev. Lett. 61 (1988) 2562.

7. "Conformation of comb liquid crystal polymers by small angle neutron scattering"
L. Noirez, G. Pépy
Physica Scripta T25 (1989) 102

8. "Conformation of a polymer in liquid crystal phases"
L. Noirez, J.P. Cotton, P. Keller, M. Lambert, F. Moussa, G. Pépy, F. Hardouin,
"New trends in Physics and Physical Chemistry of polymers" edité par Lieng-Huang Lee (Plenum Publishing Corporation) 1989.

9. "Observation of the conformation and structure of some liquid crystal polymers by SANS"
G. Pépy, L. Noirez, P. Keller, M. Lambert, F. Moussa, J.P. Cotton, C. Strazielle, A. Lapp, F. Hardouin, M. Mauzac, H. Richard,
Makromol. Chem. 191 (1990) 1383.

10. "Liquid crystal polymers: conformation of deuterated parts by SANS"

L. Noirez, J.P. Cotton, F. Hardouin, P. Keller, M. Lambert, G. Pépy
Mol. Cryst. Liq. Cryst. 180 A (1990) 165.

11. “Quasi-elastic neutron scattering study of a reentrant side-chain polyacrylate”
L. Benguigui, L. Noirez, R. Kahn, P. Keller, M. Lambert, E. Cohen de Lara
J. Phys. France 2 (1991) 451.

12. “Smectic order and backbone anisotropy of a side-chain liquid crystalline polymer by SANS”
L. Noirez, G. Pépy, P. Keller, L. Benguigui
J. Phys. France 2 (1991) 821.

13. “Neutron scattering studies of molecular conformations in liquid crystalline polymers”
L. Noirez, F. Moussa, J.P. Cotton, P. Keller, G. Pépy
J. of Statistical Physics 62 (1991) 997.

14. “Neutron scattering study and discussion of the backbone conformation in the nematic phase of a side-chain polymer”
P. Davidson, L. Noirez, J.P. Cotton, P. Keller,
Liq. Cryst. 10 (1991) 111.

15. “Evidence for a jacketed nematic polymer”
F. Hardouin, S. Méry, M.F. Achard, L. Noirez, P. Keller
J. Phys. France 2 (1991) 511.

16. “Conformational study of Liquid Crystalline Comb-like Polymers”
P. Keller, L. Noirez, J.P. Cotton, P. Davidson, F. Hardouin, F. Moussa, G. Pépy,
Proceedings of the “International Conference of Advanced Materials Composite-Ceramic Polymers 91” p.85.

17. “Influence of the strength of the smectic order on the backbone anisotropy of a side-chain liquid crystal polymer as revealed by SANS”
L. Noirez, P. Keller, J.P. Cotton,
J. Phys. France 2 (1992) 915.

18. “Small-angle neutron scattering experiments on “Side-on fixed” liquid crystal polysiloxanes”
F. Hardouin, N. Leroux, S. Méry, L. Noirez
J. Phys. France 2 (1992) 271.

19. “Small-angle neutron scattering experiments on “side-on fixed” liquid crystal polyacrylates”
N. Leroux, P. Keller, M.F. Achard, L. Noirez, F. Hardouin,
J. Phys. France 2 III (1993) 1289.

20. “Small-Angle Neutron Scattering (SANS) on “Side-End fixed” and “Side-On fixed” Liquid Crystal Polymers”, F. Hardouin, MF Achard, P. Keller, L. Noirez, J.P. Cotton, Modern Topics in Liquid Crystals, World Scientific Publishing Co, Agnès Buka Editeur, 7 (1993) 352.

21. “Some relevant paramaters on the jacketed effect in side-on fixed polysiloxanes”
N. Leroux, M. Mauzac, L. Noirez, F. Hardouin
Liq. Cryst. 16 (1994) 421.

22. “Side-chain liquid crystal polymers: a study by neutron diffraction of the backbone distribution profile in the SA phase”
L. Noirez, P. Davidson, W. Schwarz, G. Pépy,
Liq. Cryst. 16 (1994) 1081.

23. "Small-angle neutron scattering studies on "Side-on Fixed" Liquid Crystal Polymers"
F. Hardouin, N. Leroux, L. Noirez, P. Keller, M. Mauzac, M.F. Achard,
Mol. Cryst. Liq. Cryst. 254 (1994) 267.

24."Chain conformation in nematic elastomers"
H. Finkelmann, W. Kaufhold, L. Noirez, A. ten Bosch, P. Sixou,
J. Phys. II 4 (1994) 13638.

25. "Interest of neutron scattering for the investigation of liquid-crystalline polymers"
L. Noirez,
Acta Physica Hungarica 75 (1994) 101.

26. "Medium range correlation in decomposing binary systems"
L. Rosta, O. Blaschko, S. Borbely, A. Jàkli, L. Noirez,
Acta Physica Hungarica 75 (1994) 239.

27. "Small-angle neutron scattering experiments in smectic A and smectic B phases of diluted liquid crystal copolysiloxanes"
S. Lecommandoux, L. Noirez, M. Mauzac, F. Hardouin,
J. Phys. II France 4 (1994) 2249.

28. "On the structure and the chain conformation of side-chain liquid crystal polymers"
L. Noirez, P. Keller, J.P. Cotton,
Liq. Cryst. 18 (1995) 129.

29. "Direct observation of the main-chain conformation of a combined liquid crystal polymer"
L. Noirez, H. Poths, R. Zentel, C. Strazielle,
Liq. Cryst. 18 (1995) 123.

30. "Profiles of backbone distribution of different side-chain liquid-crystal polymers in the smectic phase"
L. Noirez,
Mol. Cryst. Liq. Cryst. 260 (1995) 525.

31. "Anisotropy of non-mesogenic polymer networks dispersed in a liquid-crystal matrix"
A. Jàkli, L. Rosta, L. Noirez,
Liq. Cryst. 18 (1995) 601.

32. "Magnetometric analysis of a new class of copolymer magnets based on aminonaphtalenesulfonic acids"
S. Galaj, A. Le Mehauté, F. Tsobnang, D. Cottevieille, A. Léautic, R. Clément, V. Cagan, M. Guyot, J.C. Fayet, B. Villeret, L. Noirez, A. Périchaud.
J. of Mag. Mag. Mat. 140 (1995) 1445.

33. ""Magnetometric analysis of a new class of copolymer magnets based on aminonaphtalenesulfonic acids"
S. Galaj, A. Le Mehauté, F. Tsobnang, D. Cottevieille, A. Léautic, R. Clément, V. Cagan, M. Guyot, J.C. Fayet, B. Villeret, L. Noirez, J. of Magn. Magn. Mat. 149 (1995) 425.

34. "Structure of polymer networks dispersed in liquid crystals: small angle neutron scattering study"
A. Jàkli, L. Bata, K. fodor-Csorba, L. Rosta, L. Noirez,
Liq. Cryst. 17 (1994) 227.

35. "Orientational and conductive properties of mesomorphorous polypyrroles"
F. Vicentini, J. Barrouillet, R. Laversanne, M. Mauzac, L. Noirez, F. Bibonne, J.P. Parneix,
J. Chim. Phys. 92 (1995) 795.

36. "Light Scattering and Small-angle Neutron Scattering from
Polyelectrolyte solutions: the Succinoglycan"
R. Borsali, M. Rinaudo, L. Noirez,
Macromolecules 28 (1995) 1085.

37. "Bulk Conformation of a conductive polymer substituted with lateral liquid crystalline groups"
F. Vicentini, L. Noirez, G. Pépy, M. Mauzac.
Europhys. Lett. 32 (8) (1995) 657.

38. "Steady-state shear experiments on a side-chain liquid crystalline polymer: determination of the bulk polymer conformation and liquid crystal structure"
L. Noirez, A. Lapp,
Phys. Rev. E., 53, 6 (1996).

39. "Effect of the spacer and aliphatic tails length on the conformation of "side-on fixed" liquid crystal polyacrylates: SANS experiments"
S. Lecommandoux, L. Noirez, H. Richard, M.F. Achard, C. Strazielle, F. Hardouin,
J. de Phys. II France 6 (1996) 225.

40. "Thermodynamic and conformational study of side on/side end fixed liquid crystal copolyacrylate"
S. Lecommandoux, L. Noirez, M.F. Achard, F. Hardouin,
J. Phys. II France, 6 (1996) 123.

41. "From phase orientation to phase destruction: two opposite effects of shear flow"
L. Noirez, G. Pépy, A. Lapp,
Physica B 234-236 (1997) 252.

42. "Shear flow induced transition from Liquid-Crystalline to Polymer behavior in Side-Chain Liquid Crystal Polymers"
L. Noirez, A. Lapp,
Phys. Rev. Lett. 78, 1 (1997) 70.

43. "Backbone conformation study on "side-on fixed" liquid crystal polymers"
S. Lecommandoux, L. Noirez, M.F. Achard, A. Brûlet, J.P. Cotton, F. Hardouin,
Physica B 234-236 (1997) 250.

44. "What about the Backbone Conformation in Nematic and Smectic C Phases of a "side-on" fixed liquid crystal polymers ? A SANS study
S. Lecommandoux, L. Noirez, M.F. Achard, F. Hardouin,
J. Phys. II France 7 (1997) 1417.

45. "Observation of the Structure and the Deformation of a Liquid-Crystalline polymer Under Shear Flow"
L. Noirez, A. Lapp,
Mol. Cryst. Liq. Cryst. 303 (1997) 267.

46. "Molecular conformation of a polyaramid in nematic solution from SANS and comparison with theory"
S. Picken, L. Noirez, G. Luckhurst,
J. Chem. Phys, 109, 17 (1998) 7612.

47. "Scaling laws in Side-Chain Liquid Crystalline Polymers: Experimental evidence of Main-Chain Layer Hopping in the Smectic Phase".
L. Noirez, C. Boeffel, A. Daoud-Aladine,
Phys. Rev. Lett. 80, 7 (1998) 1453.

48. "Side-chain liquid-crystalline polyacrylates: Experimental evidence of a coexistence of a double main-chain confinement in the smectic layer"
L. Noirez,
Europhys. Lett. 46 (1999) 728.

49. "Smectic C structure and backbone confinement in side-on fixed liquid crystalline polymers" S. Lecommandoux, L. Noirez, M.F. Achard, F. Hardouin,
Macromolecules 33 (2000) 67.

50. "Worm-like dendrimers: influence of the ridification of the chain as the fonction of the generation"
N. Ouali, S. Méry, L. Noirez, A. Skoulios,
Macromolecules 33 (2000) 6185.

51. "Influence of the main-chain conformation on the rheological behaviour of Side-chain Liquid Crystalline Polymers"
V. Castelletto, L. Noirez, P. Vigoureux,
Europhys. Lett., 52 (2000) 392.

52. "Shear induced SA-SC transition in side-chain liquid crystalline polymers"
L. Noirez,
Phys. Rev. Lett. 84 (2000) 2164.

53. Lyotropic syrfactants nematics unders shear: neutron scattering in the vorticity plane,
J.F. Berret, J. Vermant, L. Noirez, Proceedings of the 13th International Congress of Rheology, Cambridge/UK, 3 (2000) 273.

54. Orientational Order and Chain statistics in Nematic Polymer Solutions,
S.J. Picken, G. R. Luckhurt, L. Noirez, Proceedings of the 13th International Congress of Rheology, Cambridge/UK, 3 (2000) 233.

55. “Side-chain Influence on main-chain orientation on PPV-type oligomers,
R. Müllner, L. Noirez, E. Zojer, F. Stelzer, G. Leising,
Mater. Res. Soc. Symp. Proc. Cambridge Univ. Press (1999) 598.

56. "Behaviour of a side-chain polyacrylate in the smectic phase under shear constraint"
V. Castelletto, L. Noirez
Mol. Cryst. Liq. Cryst. 363 (2001) 79.

57. Liquid Crystal 8CB/ Deuterated Polystyrene : Investigations by SANS U. Maschke, N. Gogibus, L. Noirez, B. Ewen, T. Wagner, M. Benmouna,
Mol. Cryst. Liq. Cryst. 367 (2001) 259 (proceedings ILCC2000).

58. Pressure induced mesophases in polymer liquid crystals bu neutron scattering, G. Pépy, L. Noirez, P. Baroni,
Mol. Cryst. Liq. Cryst. 365 (2001) 279 (proceedings ILCC2000).

59. "The Role of the Smectic Layer Crossings in the Rheology of Side-chain Liquid Crystalline Polymers", L. Noirez,
Mol. Cryst. Liq. Cryst. 364 (2001) 289 (proceedings ILCC2000).

60. "Behaviour of a side-chain polyacrylate in the smectic phase under shear constraint"
V. Castelletto, L. Noirez
Mol. Cryst. Liq. Cryst. 363 (2001) 79.

61. "Observation of shear-induced isotropic-nematic transition in Side-chain Liquid Crystalline Polymers",
C. Pujolle, L. Noirez,
Nature, 409 (2001) 167.

62. "Influence of the spacer length and of the stereoregularity on the conformation of Liquid-Crystalline Polynorbornenes",
L. Noirez, M. Ungerank, F. Stelzer,
Macromol. 34 (2001) 7885.

63. "An integrated Neutron Couette System for Non-equilibrium Studies of polymers under Flow",
P. Baroni, C. Pujolle, L. Noirez,
Rev. Scie. Instr. 72 (2001) 2686.

64. "Phase structure & flow properties of liquid crystal side-chain polymers", P. Becker, C. Schmidt, L. Noirez, Polymeric Materials & Science Engineering, 84 (2001) 568.

65. "Transient and stationary flow behaviour of side-chain liquid crystal polymers : Evidence of a shear induced isotropic to nematic phase transition",
C. Pujolle, P. Olmsted, L. Noirez,
Europhys. Lett. 59 (2002) 364.

66 "Synthesis & characterization of SCLC-homopolymers and block-copolymers", K. Viertler, A. Wewerka, L. Noirez, F. Stelzer, NATO Science Series, II: Mathematics, Physics & Chemistry 56 (2002) 143.

67. “Rheology and novel shear induced states of a lyotropic lamellar phase shear induced"
J. Gustafsson, L. Noirez, G. Porte soumis à Europhys. Lett. (2002).

68. "Pressure induced reduction of the Landau-Peierls instabilities in a reentrant Side-Chain Liquid Crystal Polymer", G. Pépy, P. Baroni, L. Noirez,
Phys. Rev. E 67 (2003) 41714.

69. "Structure & texture of anisotropic nematic gels", P. Gautier, M. Brunet, J. Grupp, L. Noirez,
Phys. Rev. E 68 (2003) 11709.

70. "Shear induced nematic phase in the isotropic phase of a LC-polymer : appearance of undamped oscillations”, C. Pujolle-Robic, L. Noirez,
Phys. Rev. E. 68 (2003) 61706.

71. "Polymer dispersed Liquid Crystals made of deuteriated Polystyrene and 3CB blends: a SANS study", U. Maschke, N. Gogibus, B. Ewen, T. Wagner, L. Noirez, M. Benmouna,
Mol. Cryst. Liq. Cryst. 413 (2004) 2171.

72. “Shear Induced Order in Nematic Polymers”, P. Becker, H. Siebert, L. Noirez, C. Schmidt,
Macromolecular Symposia, 220 (2005) 111.

73. "Structural investigation of the pressure induced effects in liquid crystals" L. Noirez, G. Pépy, P. Baroni,
J. Phys. Condens. Matter 17 (2005) 1.

74. "Small-Angle Neutron Scattering from Solutions of Diblock Copolymers in Partially Miscible Solvents", P. Stepanek, Z. Tuzar, F. Nallet, L. Noirez,
Macromolecules 38 (2005) 3426.

75. "What is at the origin of the shear induced transitions", L. Noirez,
Phys. Rev. E, 72 (2005) 051701.

76. "Identification of a Gel-like Behavior in Side-Chain liquid Crystal Polymers", H. Mendil, L. Noirez,
Macromol. Symp. 222 (2005) 143.

77. "Unexpected Giant Elasticity in PLCs: correlation with shear induced phase transitions", H. Mendil, P. Baroni, L. Noirez, Europhys. Lett. 72 (2005) 983.

78. "Solid-like rheological response of non-entangled polymers in the molten state", H. Mendil, P. Baroni, L. Noirez, Euro. Phys. J. E, FOCUS POINT 19 (2006) 77.
Ci-après les articles issus de la discussion de l'article décrit ci-dessus:

"Commentary on "Solid-like rheological response of non-entangled polymers in the molten state" by H. Mendil et al", D. Collin & P. Martinoty

"Commentary on rheology of polymers in narrow gaps" G. McKenna

"Commentary on the observations of solid-like rheological response in unentangled polymer melts by H. Mendil, P. Baroni, L. Noirez, D. Collin, P. Martinoty" D. Vlassopoulos

79. "Reply to the Commentary by D. Collin & P. Martinoty", H. Mendil, P. Baroni, L. Noirez, Eur. Phys. E 19 (2006) 99.

80. "Frozen states in the Isotropic phase of Liquid-Crystal Polymers", H. Mendil, I. Grillo, P. Baroni, L. Noirez,
Phys. Rev. Lett. 96 (2006) 077801.

81. "Comments on Frozen states in the Isotropic phase of Liquid-Crystal Polymers", H. Mendil, I. Grillo, P. Baroni, L. Noirez,
Phys. Rev. Lett. 98 (2007) 249802.

82. "New developments for 2D High Resolution Neutron Scattering Experiments. Application case & experimental from crystals to polymer science", P. Baroni, L. Noirez,
Neutron News 18 (2007) 3243111.

83. « Two dimensional neutron scattering study of the bulk microstructure of polytetrafluoroethylene under uniaxial stress» L. Noirez, P. Baroni,
Applied Physics Letters 90 (2007) 243111.

84. "Structural Study of BSA/Poly(ethylene glycol) Lipid Conjugate Complexes” V. Castelletto, M. J. Krysmann, L. A. Clifton, J. Lambourne, L. Noirez, J. Phys. Chem. B, 111 38 (2007) 11330.

85. “Director Orientation of Nematic Side-Chain liquid Crystalline Polymers Under Shear Flow: Comparison of a Flow-Aligning and a non-Flow Aligning Polysiloxane”, H. Siebert, I. Quirjada-Garrido, J. Vermant, L. Noirez, C. Schmidt,
Macromol. Chem. Phys. 208 (2007) 2161.

86. “Orientational ordering in the nematic phase of a polyethylene glycol-peptide conjugate in aqueous solution”, I.W. Hamley, M.J. Krysmann, G.E. Newby, V. Castelletto, L. Noirez,
Phys. Rev. E 77 (2008) 62901.

87. “Multiple Lyotropic Polymorphism of a Poly(ethylene glycol)-peptide conjugate in aqueous solution”, I.W. Hamley, M.J. Krysmann, V. Castelletto, L. Noirez,
Adv. Mat. 20 (2008) 4384.

88. “Multiple Lyotropic Polymorphism of a Poly(ethylene glycol)-peptide conjugate in aqueous solution”, I.W. Hamley, M.J. Krysmann, V. Castelletto, L. Noirez, Adv. Mat. 23 (2008) 4394.

89. “Pressure Effects Revealed by Small Angle Neutron Scattering on Block Copolymer Gels.” V. Castelletto, G. E. Newby, I. W. Hamley, L. Noirez, P. Baroni, Langmuir 24 (2008) 8319.

90. “Rich polymorphism of a rod-like liquid crystal (8CB) confined in two types of unidirectional nanopores”
R. Guégan, D. Morineau, R. Lefort, W. Béziel, M. Guendouz, L. Noirez, A. Henschel and P. Huber,
Eur. Phys. J. E 26, 261-273 (2008)

91. “Nematic and Columnar Ordering of a PEG-Peptide Conjugate in Aqueous Solution” Hamley IW, Krysmann MJ, Kelarakis A, Castelletto V, Noirez L, Hule RA, Pochan DJ,
CHEMISTRY-A EUROPEAN JOURNAL 14 (2008) 11268.

92. “Nematic and Columnar Ordering of a PEG-Peptide Conjugate in Aqueous Solution”, Hamley IW, Krysmann MJ, Kelarakis A, Castelletto V, Noirez L, Hule RA, Pochan DJ,
Chemistry A European Journal 14 (2008) 11369.

93. ″Micelles of a Diblock Copolymer of Sryrene and Ethylene Oxide in Mixtures of 2,6-Lutidine and Water″, Z. Tuzar, P. Kadlec, P. Stepanek, J. Kriz, F. Nallet, L. Noirez,
Langmuir 24 (2008) 13863.

94. “Complex Structure & Dynamics of Diblock Copolymers in a mixture of partially miscible solvents” P. Stepanek, Z. Tuzar, P. Kadlec, J. Kriz, F. Nallet, L. Noirez, Y. Talmon,
Complex Systems, 982 (2008) 446.

95. “Asymptotic behaviour of the Shear induced Isotropic to Nematic Transition of Side-Chain Liquid-Crystal Polymers: identification of thickness and slipping effects” H. Mendil-Jakani, P. Baroni, L. Noirez,
Langmuir 25 (2009) 5248.

96. “Self-Assembly of Two-component gels: stoichiometric control and component selection”, A.R. Hirst, J.F. Miravet, B. Escudet, L. Noirez, V. Castelletto, I.W. Hamley, D.K. Smith,
Chem. Eur. J 15 (2009) 372.

97. “New Light on Old Wisdoms on Molten Polymers: Conformation, Slippage & shear banding in sheared entangled and unentangled melts”
L. Noirez, H. Mendil-Jakani, P. Baroni,
Macromol. Rapid Commun. 30 (2009) 1709.

98. ″The missing parameter in rheology : Hidden Solid-like Correlations in Liquid Polymers and Glass Formers″, L. Noirez, P. Baroni, H. Mendil-Jakani,
Polymer International 58 (2009) 962.

99. “Revealing the solid-like nature of Glycerol at ambient temperature” L. Noirez, P. Baroni,
J. of Molecular Structure, 972 (2010) 16.

100. “Two-dimensional Neutron Scattering in a Floating Heavy Water Bridge”, E.C. Fuchs, P. Baroni, B. Bitschnau, L. Noirez,
J. of Physics D, 43 (2010) 105502.

101. “Self-assembly of an amyloid peptide fragment–PEG conjugate: lyotropic phase formation and influence of PEG crystallization”, V. Castelletto, G. E. Newby, D. Hermida Merino, I. W. Hamley, D. Liu and L. Noirez,
Polym. Chem.,1 (2010) 453.

102. “Growth and Branching of Charged Wormlike Micelles as revealed by Dilution Laws” M. In, B. Bendjeriou, L. Noirez, I. Grillo,
Langmuir Letter 26 (2010) 10411.

103. “Self-Assembly of PEGylated Peptide Conjugates Containing a Modified Amyloid β-Peptide Fragment”, V. Castelletto, G. E. Newby Z. Zhu, I. W. Hamley, L. Noirez,
Langmuir 26(12) (2010) 9986.

104. “Self-assembly of an amyloid peptide fragment-PEG conjugate: lyotropic phase formation and influence of PEG crystallization” V. Castelletto, G.E. Newby, D.H. Merino, I.W. Hamley, D. Liu, L. Noirez,
Polymer Chemistry, vol. 1(4) (2010) 453.

105. “Identification of finite shear-elasticity in the liquid state of molecular (OTP) and polymeric glass formers (PBuA)” L. Noirez,
H. Mendil-Jakani, P. Baroni,
Philosophical Magazine 91 (2011) 1977-1986.

106. «A SANS INVESTIGATION OF MICELLES IN MIXTURES OF CETYLTRIMETHYLAMMONIUM bromide (CTAB)/octyl-_-d-glucopyranoside (C8G1) in water/glycerol solvent », M. Valiente, A.B. Cortés, M. Gradzielski, L. Noirez, R. Schweins,
Colloids and Surfaces A: Physicochem. Eng. Aspects 375 (2011) 117–123.

107. “The Use of Highly Ordered Vesicle Gels as Template for the Formation of Silica Gels″, C. Oppel, Prevost S., L. Noirez, M. Gradzielski, Langmuir 27 (2011) 8885.

108. « Polymeric Nanoparticles Stabilized by Surfactants Investigated by Light Scattering, Small-Angle Neutron Scattering, and Cryo-TEM Methods », J. Panek, S. Filippov, Konak, C, Nallet, F, Noirez, L, Karlsson, G, Stepanek, P,
J. of Dispersion Science and Technology, 32 (2011) 888-897.

109. “Structure of reverse microemulsion-templated metal hexacyanoferrate nanoparticles” A. Gutierrez-Becetta, M. Barcena-Soto, V. Soto, J. Arellano-Ceja, N. Casillas, S. Prevost, L. Noirez, M. Gradzielski, J. I Escalante,
Nanoscale Research Letters, 7 (2012) 83.

110. “Studying of PYSZ and FYSZ turbine blade coatings by small-angle neutron scattering”, Ryukhtin, V ; Saruhan, B ; Ochrombel, R ; Noirez, L., Wiedenmann, A.
Journal of Physics, Conference Series, 34 (2012) 12097.

111. “Identification of Low Frequency Shear elasticity in Liquids n-Heptadecane, Liquid Water and RT-Ionic Liquids [emim]5Tf2N], L. Noirez, P. Baroni, H. Cao, J. Mol. Liq. 116 (2012) 18990.

112. “Identification of a low frequency elastic behavior in Liquid Water”, L. Noirez, P. Baroni,
J. of Physics: Condensed Matter 24 (2012) 372101 – ARTICLE SELECTIONNE IOP par l’Editeur.

113. "Structure and Phase Behavior of a Discotic Columnar Liquid Crystal Confined in Nanochannels" C. Cerclier, M. Ndao, R. Busselez, R. Lefort, E. Grelet, P. Huber, A. Kityk, L. Noirez, A. Schoenhals, D. Morineau,
J. of Phys. Chem. C.136 (2012) 140505.

114. “Richness of Side-Chain Liquid-Crystal Polymers: From Isotropic Phase towards the Identification of Neglected Solid-Like Properties in Liquids” Laurence Noirez, Hakima Mendil-Jakani, Patrick Baroni and Joachim H. Wendorff,
POLYMERS 4(2) (2012) 1109, INVITED ARTICLE in the special Issue P. Keller Ed.

115.”Critical Behavior of nanoparticle-containing binary liquid mixtures” Z. Bakaeva, P. Cernoch, P. Stepanek, F. Nallet, L. Noirez,
PHYS. CHEM. CHEM. PHYS. 15 (2013) 5831.

116. “Highlighting a Cooling Regime in Liquids under Submillimeter Flows”, Patrick Baroni, Patrice Bouchet,and Laurence Noirez,
J. OF PHYS. CHEM. LETTERS, 4 (2013) 2026−2029

117. “What Happens to Polymer Chains Confined in Rigid Cylindrical Inorganic (AAO) Nanopores » L. Noirez,, C. Stillings, J.-F. Bardeau, M. Steinhart, S. Schlitt, J. H. Wendorff, and G. Pépy,
Macromolecules 46 (2013) 4932.

118. “HIGHLIGHTING A SOLID-LIKE BEHAVIOR IN RTILS: TRIOCTYLMETHYLAMMONIUM Bis(trifluoromethanesulfonyl)imide TOMATFSI”, H. Mendil-Jakani, P. Baroni, L. Noirez, L. Chancelier, G. Gebel,
J. of Phys. Chem. Letters ,4 (2013) 3775.

119. “HIDDEN SOLIDLIKE PROPERTIES IN THE ISOTROPIC PHASE OF THE 8CB LIQUID CRYSTAL”, P. Kahl, P. Baroni, L. Noirez,
PHYS. REV. E 88 (2013) 50501.

120. “SMECTIC C CHEVRONS IN NANOCYLINDERS” R. Lefort, F. Jean, L. Noirez, M. Ndao, C. Cerclier, D. Morineau,
APPL. PHYS. LETT. 105 (2014) 203106.

121. “USING LIGHT TO SEE NEUTRONS AND ACCESSING THE 2D HIGH RESOLUTION: BAROTRON: A NEW PULSE FOR NEUTRON SCATTERING” P. Baroni, L. Noirez*, AMERICAN JOURNAL OF APPLIED SCIENCES 11 (9) (2014) 1558-1565.

122. "HIGHLIGHTING DELAYED ELASTIC PROCESSES AT ZERO STRESS IN A POLYMER GLASS", S. Mbarek, P. Baroni, L. Noirez, POLYM. INTER, 64 (2015) 1303 DOI: 10.1002/PI.4950.

123. "HARMONIC STRAIN-OPTICAL RESPONSE REVEALED IN THE ISOTROPIC (LIQUID) PHASE OF LIQUID CRYSTALS"
P. KAHL, P. BARONI, L. NOIREZ,
APPL. PHYS. LETT. 107 (2015) 84101.

124. "ORGANOGELS BASED ON 12-HYDROXY STEARIC ACID AS A LEITMOTIF: DEPENDENCE OF GELATION PROPERTIES ON CHEMICAL MODIFICATIONS", M. Burkhardt, L. Noirez , M. Gradzielski,
J. OF COLLOID AND INTERFACE SCIE. 466 (2016) 369–376.

125. "BRINGING TO LIGHT HIDDEN ELASTICITY IN THE LIQUID STATE USING IN-SITU PRETRANSITIONAL LIQUID CRYSTAL SWARMS" P. Kahl, P. Baroni, L. Noirez,
Plos One DOI: 10.1371/journal.pone.0147914 (2016).

126. "HIGHLIGHTING LIQUID WATER TRAPPED IN NEOLITHIC CHASSEY FLINTS USING NEUTRON SCATTERING", P. Sciau, N. Ratel-Ramond, P. Baroni, L. Noirez,
Journal of Physics: 746 (2016) 012067.

127. "MICROSTRUCTURE AND CONCENTRATION FLUCTUATIONS IN ALCOHOL–TOLUENE AND ALCOHOL-CYCLOHEXANE BINARY LIQUIDS: A SMALL ANGLE NEUTRON SCATTERING STUDY", JR. Mhanna, R. Lefort, L. Noirez, D. Morineau,
J. of Mol. Liquids 218 (2016) 198–207.

128. "A JOURNEY THROUGH THE PHASE DIAGRAM OF A PHARMACEUTICALLY RELEVANT MICROEMULSION SYSTEM", L. Chiappisi, L. Noirez, M. Gradzielski, J. of Colloid and Interface Science, 473 (2016) 52.

129. "FROM FLOW BIREFRINGENCE IN LIQUID CRYSTALS TO THE IDENTIFICATION OF SHEAR ELASTICITY IN LIQUIDS", P. Kahl, L. Noirez, article de revue sur invitation, LIQUID CRYSTALS REVIEWS, 4, N°. 2 (2017) 135–151.

130. "THERMORESPONSIVE BLOCK COPOLYMERS FROM ONE POT SEQUENTIAL RAFT POLYMERIZATIONS AND THEIR SELF-ASSEMBLY IN AQUEOUS SOLUTION", C. Herfurth, L. Noirez, B. von Lospichl, M. Gradszielski,
Polymer 107 (2016) 422-433.

131. "MORE ROOM FOR MICROPHASE SEPARATION: AN EXTENDED STUDY ON BINARY LIQUIDS CONFINED IN SBA-15 MATERIALS", R. Mhanna, A. Razzak Hamid, S. Dutta, R. Lefort, L. Noirez, D. Morineau,
J. Chem. Phys. 146 (2017) 024501.
☞ a fait l'objet d'un communiqué de presse par AIP Media Line :
"Zeroing in on the true nature of fluids within nanocapillaries" publishing.aip.org /publishing/journal-highlights/zeroing-true-nature-fluids-within-nanocapillaries, 10 Janvier 2017.

132. "WALL EFFECTS INDUCED BY CERAMIC IN QUIESCENT LIQUIDS" L. Noirez, P. Baroni,
J. of Phys. Cond. Mat.: Conf. Series 790 (2017) 012024.

133. "HIGHLIGHTING NON-UNIFORM TEMPERATURES CLOSE TO LIQUID/SOLID SURFACES", L. Noirez, P. Baroni, J.F. Bardeau,
Appl. Phys. Lett. 110 (2017) 213904.

134. "IMPORTANCE OF INTERFACIAL INTERACTIONS TO ACCESS SHEAR ELASTICITY OF LIQUIDS AND UNDERSTAND FLOW INDUCED BIREFRINGENCE FROM LIQUID CRYSTALS TO WORM-LIKE MICELLAR SOLUTIONS", L. Noirez,
Oil & Gas Science and Technology – Rev. IFP Energies Nouvelles 10 (2017) 10.

135. "TEMPERATURE-DEPENDENT STRUCTURE AND DYNAMICS OF HIGHLY BRANCHED POLY(*N*-ISOPROPYLACRYLAMIDE) IN AQUEOUS SOLUTION" A. M. AL-Baradi,S. Rimmer, S. R. Carter, J.P. de Silva, Stephen M. King*, M. Maccarini, B. Farago, L. Noirez, M. Geoghegan
Soft Matter (2018) DOI: 10.1039/c7sm02330h

136. "STRUCTURAL CHARACTERIZATION OF NANOPARTICLES FORMED BY FLUORINATED POLY(2-OXAZOLINE)-BASED POLYPHILES" A. Riabtseva; L. Kaberov; L. Noirez; V. Ryukhtin; C. Nardin; B. Verbraeken; R. Hoogenboom; P. Stepanek; S. Filippov,
European Polymer Journal 99 (2018) 518–527.

137. "INTERPLAY OF THERMOSENSITIVITY AND PH SENSITIVITY OF AMPHIPHILIC BLOCK-GRADIENT COPOLYMERS OF DIMETHYAMINOETHYL ACRYLATE AND STYRENE", M. Rabyk, A. Destephen, A. Lapp, S. King, L. Noirez, L. Billon, M. Hruby, O. Borisov, P. Stepanek, E. Deniau,
Macromolecules 51 (14) (2018) 5219–5233.

138. "THERMAL SHEAR BANDING IN MELTS OF POLYMERS UNDER OSCILLATORY STRAIN FIELD", L. Noirez, P. Baroni,
J. of Colloid and Surf. 296(4) (2018) 713-720.

139. "EXPLORING "DORMANT" OPTO-MECHANICAL PROPERTIES OF THE ISOTROPIC PHASE OF LIQUID CRYSTALS AND REVEALING HIDDEN ELASTICITY OF (ORDINARY) LIQUIDS", L. Noirez & P. Kahl,
Fluids (2018), 3, 43; doi:10.3390/fluids3020043.

140. "STRUCTURAL CONTROL OF POLYELECTROLYTE/MICROEMULSION DROPLET COMPLEXES (PEMECS) WITH DIFFERENT POLYACRYLATES" M. Simon, P. Krause, L. Chiappisi, L. Noirez and M. Gradzielski,
Chem. Sci., 10 (2019) 385–397.

141. "BINARY SOLVENTS IN NANOPOROUS CONFINEMENT: HOW DIFFERENT ARE THEY?" D. Morineau, A. Jani, R. Mhanna, S. Dutta, R. Lefort, I. Essafri, A. Ghoufi, P. Huber, M. Fröba, B. Frick et L. Noirez, InterPore2019 (2019).

142 "NEUTRON IMAGING OF LIQUID-LIQUID SYSTEMS CONTAINING PARAMAGNETIC SALT SOLUTIONS" T. A. Butcher, G. J. M. Formon, P. Dunne, T. M. Hermans, F. Ott, L. Noirez, and J. M. D. Coey,
Appl. Phys. Lett. 116, 022405 (2020) https://doi.org/10.1063/1.5135390.

143. "STRUCTURAL CONTROL IN MICELLES OF ALKYL ACRYLATE-ACRYLATE COPOLYMERS VIA ALKYL CHAIN LENGTH AND BLOCK LENGTH", Ö. Azeri, D. Schönfeld, L. Noirez & M. Gradzielski, Colloid and Polymer Science 298, 829–840 (2020).

144. "CHANGES IN PHASE BEHAVIOR FROM THE SUBSTITUTION OF ETHYLENE OXIDE WITH CARBON DIOXIDE IN THE HEAD GROUP OF NONIONIC SURFACTANTS" V.J. Spiering, A. Ciapetti, M Tupinamba Lima, D.W. Hayward, L. Noirez, M.-S. Appavou, R. Schomäcker & M. Gradzielski, ChemSusChem. 13(3): 601–607 (2020).

145. "EFFECT OF POLYMER ARCHITECTURE ON THE PHASE BEHAVIOR AND STRUCTURE OF POLYELECTROLYTE/MICROEMULSION COMPLEXES (PEMECS)" M. Simon, E. Schneck, L. Noirez, S. Rahn, I. Davidovich, Y. Talmon & M. Gradzielski, Macromolecules, 53, 4055–4067 (2020) (https://doi.org/10.1021/acs.macromol.0c00236).

146. "STRAIN-INDUCED VIOLATION OF TEMPERATURE UNIFORMITY IN MESOSCALE LIQUIDS", E. Kume, L. Noirez, Scientific Reports 2020 (DOI: 10.1038/s41598-020-69404-1).

147. "DO DEEP EUTECTIC SOLVENTS FORM UNIFORM MIXTURES BEYOND MOLECULAR MICROHETEROGENEITIES?" L. Percevault, A. Jani, T. Sohier, L. Noirez, L. Paquin, F. Gauffre, D. Morineau,
J Phys Chem B 124(41):9126-9135 (2020).

148. "FUNCTIONALIZED PEPTIDE HYDROGELS AS TUNABLE EXTRACELLULAR MATRIX MIMICS FOR BIOLOGICAL APPLICATIONS", K.S. Hellmund, B. von Lospichl, C. Böttcher, K. Ludwig, U. Keiderling, L. Noirez, A. Weiß, D. J. Mikolajczak, M. Gradzielski and B. Koksch,
Peptide Science, 113, e24201 (2021) (DOI:10.1002/pep2.24201).

149. "Structural Characterization of Nonionic Surfactant Micelles with CO2/Ethylene Oxide Head Groups and Their Temperature Dependence" Vivian J. Spiering, Albert Prause, Laurence Noirez, Marie-Sousai Appavou, and Michael Gradzielski,
Langmuir 2021, 37, 45, 13235–13243.

150. "UNIVERSAL G' ~ L-3 LAW FOR THE LOW-FREQUENCY SHEAR MODULUS OF CONFINED LIQUIDS" A. Zaccone & L. Noirez,
J. Phys. Chem. Lett.12 (1):650-657 (2021).

151. "IDENTIFICATION OF MECHANICAL-STIMULI THERMAL RESPONSE IN MESOSCOPIC LIQUIDS: FROM HARMONIC TO NON-HARMONIC THERMAL WAVE", E. Kume, L. Noirez,
J. Chem. Phys. 125 (2021) 8652: https://doi.org/10.1021/acs.jpcb.1c04362 - Article choisi par l'Editeur pour page de garde ("COVER ART") du journal. L'image montre la propagation de l'onde thermique émise par le liquide sous contrainte de cisaillement oscillante.

152. « Unexpected Thermo-Elastic effects in Liquid Glycerol by Mechanical Deformation » E. Kume, A. Zaccone, L. Noirez,
Physics of Fluids, 33, 072007 (2021) DOI: 10.1063/5.0051587.

153. ""Highlighting Thermo-Elastic effects in Confined Fluids", E. Kume, P. Baroni, L. Noirez,
Polymers 13, 2378 (2021) DOI:10.3390/polym13142378

154. "HUMAN BLOOD PLASMA IN CAPILLARY-SIZE FLOW: REVEALING HIDDEN ELASTICITY AND SCALE DEPENDENCE", U. Windberger, P. Baroni L. Noirez,
J. Biomed Mater Res. 110 (2022) 298–303, DOI: 10.1002/jbm.a.37286.

155. "From Hidden Shear-Elasticity to Opto-and Thermo-Elasticity on Confined Polymer Mets and Viscous Liquids", L.Noirez, E. Kume, P. Baroni, Macromolecular Symposia 405 (2022) 2100245. Doi: 10.1002/masy202100245..

156. "Thermal Shear Waves Induced in Mesoscopic Liquids at Low Frequency Mechanical Deformation", Kume, E. and Noirez, L.,
Journal of Non-Equilibrium Thermodynamics, vol. 47 (2022) 155-163. DOI:10.1515/jnet-2021-0091

157. "An alternative view on blood plasma in the vascularity", U. Windberger & L. Noirez, Applied Mechanics & Technical Physics, 63, 950–956 (2022)

158. Dépôt d'un brevet d'invention pour l'exploitation de la thermo-élasticité en écoulement microfluidique, application à la production de froid et à la mesure de la pression dans les micro-canaux: P. Baroni, L. Noirez, déposé le 24-06-2022, sous le n° FR2206312. * *Je place ce brevet dans la liste des publications car c'est une propriété (thermo-élastique des liquides) qui est revendiquée dans ce brevet et en protège ses applications, Rapport de Recherche validé en Mars 2023, PCT 2023.*

159. "Collective Effects in Ionic Liquid [emim][Tf2N] and Ionic Paramagnetic Nitrate Solutions without Long-Range Structuring"
Eni Kume, Nicolas Martin, Peter Dunne, Patrick Baroni and Laurence Noirez, Molecules 2022, 27, 7829.

160. A Comparison of Interpolyelectrolyte Complexes (IPECs) made from Anionic Block Copolymer Micelles and PDADMAC or q-Chitosan as Polycation, Ö. Azeri, D. Schönfeld, B. Dai, U. Keiderling, L. Noirez, M. Gradzielski*, Polymers 2023, 15, 2204. https://doi.org/10.3390/polym15092204.

161. "Identification by Inelastic X-Ray scattering of bulk alteration of solid dynamics due to Liquid Wetting", M. Warburton, J. Ablett, P. Baroni, JP Rueff, L. Paolasini, L. Noirez*, J. of Molecular Liquids 2023.

162. "Microscopic analysis of the water/glycerol/EO30PS system in bulk and on a solid substrate", M. Uyama, R. Steitz, M. Trapp, L. Noirez, S. Bayer and M. Gradzielski, Langmuir 39 (2023) 12206-12215.

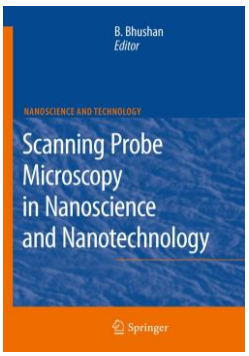
163. Amphiphilic Polymer Conetworks Studied by SANS: Effect of Type

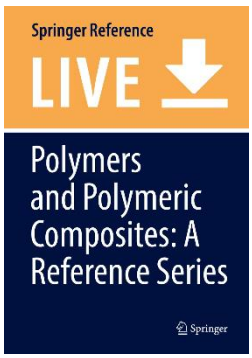
of Solubilisate and Molecular Architecture on the Swollen Gel Structure", P. Malo de Molina, D. Kafouris, C. Patrickios, L. Noirez, & M. Gradzielski, Macromolecules sous presse 2023.

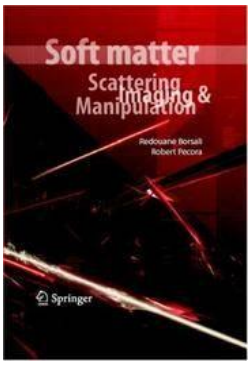
164. « Fundamental constants explain sub-millimeter liquid shear forces", L. Noirez*, Focus Point in Science Advances (2023) http://www.science.org/doi/10.1126/sciadv.adj8336.

165. The Effect of CO2/EO Head Groups on the Solubilization of Oils of Different Polarity in Aqueous Solutions of Nonionic Surfactants, Rahel M. N. Marschall, Vivian J. Spiering, Albert Prause, Jana Lutzki, Laurence Noirez, Sylvain Prevost, Michael Gradzielski, soumis.

Book Chapters:







1."Characterization of SCLC-Homopolymers and Blockcopolymers"
K. Viertler, A. Wewerka, L. Noirez, F. Stelzer*, Chapitre 12 de "Ring Opening Metathesis Polymerisation and Related Chemistry, State of the Art and Visions for the New Century" E. Khosravi, T. Szymanska-Buzar (Eds) vol.56 NATO Science series, Kluwer Academic Publishers, 2002 ISBN: 978-1-4020-0559-6.

2. "Complex Melts under Extreme Conditions: from Liquid Crystal to Polymers. The Key-role of the Scattering methods for flow and pressure investigations." L. Noirez, Volume 3/4 "Neutron and X-Ray Scattering" du livre "Soft Matter: Scattering, Imaging and Manipulation", Soft-Matter Characterization, Borsali, Redouane; Pecora, Robert (Eds.) Kluwer Academic Publishers, 2008 ISBN: 978-1-4020-4465-6

3. ″Dispositif innovant pour mesurer les propriétés viscoélastiques des matériaux″, P. Baroni, L. Noirez, les Techniques de l'Ingénieur, Editions T.I. RE145-1 (2010).

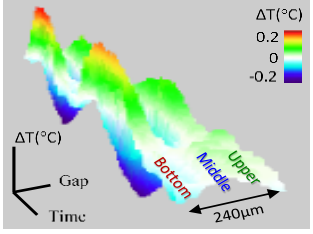
4. ″Novel strategies to probe the fluid properties and revealing its hidden elasticity″ L. Noirez, Chapître 6 de ″Applied Scanning Probe Method″ Nanoscience & Technology", published par Springer-Verlag Berlin Heidelberg, B. Bhushan Editor, 2009 ISBN: 978-3-642-03534-0.

5. "Probing sub-millimeter dynamic to access static shear elasticity from polymer melts to molecular fluids" L. Noirez (2019), Encyclopedia of Polymers and Composites

Polymers and Polymeric Composites: A Reference Series, S. Palsule (Editor), DOI 10.1007/978-3-642-37179-0_54-2

Recent Highlights: on en parle à la Direction Fondamentale de la Recherche du CEA:

- **Highlight 1**: Communiqué du service de la Matière Condensée du 20/08/2021 sur la publication de E. Kume, P. Baroni et L. Noirez , "Strain-induced violation of temperature uniformity in mesoscale liquids" dans Sci Rep **10**, 13340 (2020):



https://iramis.cea.fr/spec/Phocea/Vie_des_labos/Ast/ast.php?t=fait_marquant&id_ast=3259

- Highlight 2: Communiqué de la Direction Fondamentale de la Recherche (DRF):
Observation expérimentale d'un effet thermoélastique dans l'état liquide:
https://www-llb.cea.fr/Phocea/Vie_des_labos/Ast/ast.php?t=fait_marquant&id_ast=3291

La thermoélasticité décrit la variation des propriétés élastiques d'un corps solide en fonction de sa température. Pour un fluide incompressible, les coefficients thermoélastiques, dilatation isobare et compressibilité isotherme, sont en pratique nuls. Pour être non nuls, il est nécessaire que des interactions à longue portée soient présentes, mais ceci est a priori exclu de par la définition même de l'état liquide. Une équipe du LLB vient cependant de mettre en évidence des propriétés thermoélastiques pour un liquide dans des conditions usuelles de pression. Ils observent qu'un liquide ordinaire présente une modulation de température sous l'application d'une contrainte mécanique de cisaillement à basse fréquence (~1 Hz) le liquide se divise en bandes thermiques chaudes et froides, de plusieurs dixièmes de microns de large et variant de manière synchrone avec la déformation. Ce couplage thermomécanique ainsi mis en évidence est une preuve que l'énergie de l'onde de cisaillement n'est pas dissipée par le liquide mais se propage à l'échelle mésoscopique.

- Highlight 3: Communiqué dans les "Brèves de l'Iramis": Mise en évidence d'une relaxation thermo-mécanique dans un liquide après cisaillement, E. Kume & L. Noirez, Brèves de l'Iramis n°307 (May 2021).

De la découverte à l'Innovation : Brevets d'Invention:

Brevet 1 (CNRS) 2004 n°0502379 (PCT n°EP2006/06011).
Nouveau « Détecteur 2D haute résolution pour Rayonnement Neutrons » (Barotron) Inventeurs: Patrick Baroni - L. Noirez
Licence Exclusive achetée par MAATEL-Scientific Instrumentation (SA) ARINAX (représente 1% des brevets CEA)

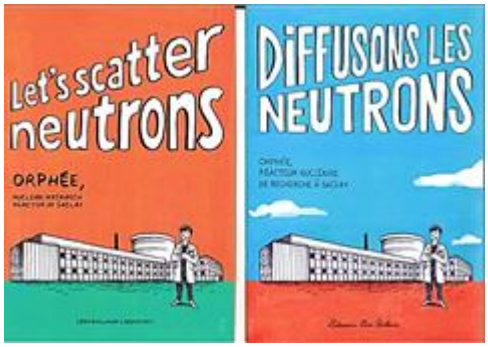
Brevet 2 (CEA) 2005 n°0510988 (PCT).

Procédé & dispositif pour la détermination des propriétés dynamiques pour fluides ou solides déformables
Inventeurs : P. Baroni, H. Mendil, L. Noirez

Brevet 3 (CNRS) 2012 : DI 05815-01 FR12, extension PCT
« Nouveau Procédé et Dispositif de production du froid »
Inventeurs : P. Baroni, L. Noirez et P. Bouchet (LLB, IRFU)

Brevet 4 (CEA-CNRS) 2022: n° FR2206312.
« Procédé et dispositif de détermination d'une pression d'un liquide en écoulement dans un canal». Inventeurs : P. Baroni & L. Noirez
Dépôt d'un brevet d'invention déposé le 24-06-2022, sous le n° FR2206312, Rapport de Recherche validé en Mars 2023, PCT validé en Juin 2023

Scientific Comics



Participation à l'élaboration de la première bande dessinée « Diffuser les neutrons » en 2018 et version anglaise « Let's scatter neutrons » en 2019, pour illustrer le quotidien des chercheurs et techniciens autour du Grand Instrument Orphée du LLB – conception : A. Bordenave (dessinatrice) et I. Mirebeau (LLB).
(https://fr.calameo.com/read/005680666c17f80b4dda1).