

# Curriculum Vitae Laurence RAMOS

## CNRS Senior Scientist

French, Female

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## EDUCATION

**1990-1994:** Engineer from the “Ecole Supérieure de Physique et de Chimie Industrielles de la Ville de Paris” (ESPCI), Paris. Specialties in physics and chemistry.

**1993-1994:** Master in Condensed Matter, University Paris 6, Paris. Major in condensed matter physics, soft matter physics and physical-chemistry.

**1994-1997: PhD from University Paris 6** received with Honors; research performed at the Laboratoire de Physique de la Matière Condensée, Collège de France, Paris. Adviser: P. Fabre.

**2003:** Habilitation to conduct research (**HDR**) from University Montpellier II, Specialty: Physics.

## EMPLOYMENT HISTORY

**1997-1998: Post-doctoral training**, University of Pennsylvania, Physics Department, Philadelphia, USA. Adviser: Prof. D. A. Weitz.

**1998-2011: Junior Scientist** (CNRS Chargé de Recherche) in the soft matter group at L2C, Montpellier.

**Feb.-Aug. 2008: visiting professor** at Center for Soft Matter Research, New York University, New-York city, USA, in the group of Prof. David Pine.

**2011-... : Senior scientist** (CNRS Directeur de Recherche) at L2C, Montpellier.

## RESEARCH INTEREST

Design of soft composite materials; self-assembled systems; polymer and colloid soft materials; biomimetic systems; gluten proteins; structural, dynamical and rheological properties of soft matter; plasticity; non-linear rheology; shear-induced transitions; fracture in soft materials; agronomy-inspired soft matter; impact of complex drops and beads.

## PUBLICATIONS

More than 70 publications in the following domains: physics, soft matter physics, physical chemistry, chemistry, material science, biophysics and food science. ISI Web of Science, Research ID C-4610-2013.

See below a complete list of publications.

## ORAL PRESENTATIONS

- 20 invited talks in French (6) and International (14) conferences and workshops.

- 45 invited seminars in France, Europe, China and USA.

- 44 oral presentations in conferences, workshops, and French and European networks.

## PEER REVIEWING AND EDITORIAL ACTIVITY

- **Peer-review expertise for different organisms:** National Agency for Research (ANR) [2005, 2010, 2011, 2012], High Council for Evaluation of Research and Higher Education (HCERES) [2012-2015], scientific council of University Orsay [2006], Consiglio Nazionale delle Ricerche (Italy) [2008], National Sciences and Engineering Research Council (Canada) [2012], Netherlands Organization for Scientific Research, Netherlands [2016], Scientific council of Région Nouvelle Aquitaine [2017].

- **Reviewing of scientific papers** (on average 16 papers/year in the last 3 years) including for *PRL*, *PNAS*, *PRX*, *Langmuir*, *PRE*, *Macromolecules*, *Soft Matter*.

- **Member of the editorial board** of the CNRS magazine *Images de la Physique* [2009-2013], magazine *Reflets* (Société Française de Physique) [since 2014], *Europhysics News* (European Physical Society) [since 2014], *Liquids*, *Soft Matter and Biological Physics Board of Journal Physics: Cond. Matter* [since 2015].

## ADMINISTRATIVE RESPONSIBILITY

- Elected member of the laboratory council [1999-2004 and 2009-2015], of the council of the Institute of Physics of Montpellier [2005-2014].
- Appointed member of the Montpellier university council, in condensed matter physics [2001-2008] and of the Ecole Nationale Supérieure de Lyon council, in Physics [2004-2008]; appointed expert in condensed matter physics at University of Orsay [2009-2012], and in complex matter at University Paris VII [2009-2014].
- Elected member of the administrative board of the Condensed matter division of the French Physical Society [2005-2008]
- Appointed member of the Peer Review Committee 4 «Chemistry & Physico-Chemistry, In situ reactivity, Soft matter » of Synchrotron SOLEIL [2012-2013]
- Elected member of the CNRS Scientific Research council [2012-2016].

## ORGANIZATION OF MEETINGS

Member of the scientific committee of "French Colloquium on Liquid Crystals" (2005); Member of the organization and scientific committee of the national interdisciplinary (physics, chemistry, biology) school "Nano-objects at interfaces" (2005); Chairperson of the symposium «Interfacial phenomena, surfactant and foams» at the Third Annual European Rheology Conference (2006); Member of the scientific committee of the Journées de la Matière Condensée (JMC10, 2006 and JMC11, 2008); Co-organization of a colloquium on biophysics at JMC12 (2010). Member of the scientific committee of the annual workshop of Groupe Français de Rhéologie (2014), Chair of the scientific committee of Journées scientifiques «Matière Molle et Sciences de l'Alimentation» (2015) Chairperson of the symposium «Polyelectrolytes, Self Assembling Fluids & Gels» at the Annual European Rheology Conference (2018).

## SUPERVISION OF STUDENTS AND POST-DOCS

### PhD Students

- G. Massiera [99-02]** *Structural and dynamical properties of giant micelles decorated by amphiphilic copolymers*  
**S Mazoyer [03-07]** *Spatial and dynamic heterogeneities in the ultra-slow and non stationary dynamic of a soft glass measured by light microscopy*  
**K Carvalho [06-09]** *Biomimetic vesicles as simple models to understand the interactions between the plasmic membrane and the cytoskeleton*  
**E Tamborini [09-12]** *Colloidal metallurgy*  
**G Foyart [10-13]** *Fracture and instabilities of viscoelastic fluids in Hele-Shaw cells*  
**M Dahesh [11-14]** *Unraveling the mechanisms for the structuration of gluten: a multiscale approach using model systems*  
**C Vernay [2012-15]** *destabilization of liquid sheets of dilute emulsions*  
**S Arora [14-17]** *Drops, beads and filaments of gels under extreme deformations*  
**S Aime [14-17]** *Dynamic failure precursors in soft matter*  
**D Floresyona [14-17]** *Synthesis of metal and conjugated polymer nanostructures in hexagonal mesophases for application in fuel cells and photocatalysis*  
**J Pincemaille [15-..]** *Assemblies and interactions in wheat proteins*  
**A Poirier [16-..]** *A soft matter approach for thickening liquids oils.*

### Postdocs

- Y Luan [05-06]** *Interactions between charged vesicles and oppositely charged polyelectrolytes*  
**H Tabuteau [06-08]** *Rheological properties of transient self-assembled networks*  
**T Tixier [08-09]** *Transient self-assembled networks with tunable non-linear properties*  
**N Khalifat [09-12]** *Biomimetic systems for the interface between membrane/cytoskeleton mediated by ezrin protein*  
**N Ghofraniha [09-11]** *Colloidal metallurgi*  
**C Charbonneau [14]** *Structure and rheology of elastomeric proteins*  
**M Wolff [14-15]** *Structure and rheology of elastomeric proteins*  
**A Pommella [15-..]** *Dynamic precursor of failure in soft materials*  
**D Donnarumma [16-..]** *Impact and spreading of drops of oil in water emulsions on natural (banana leaves) and model surfaces*  
**S Constanzo [17-..]** *Physical properties of bio-based hyper-ramified polymers*

## PUBLICATIONS

### Peer-reviewed journals

1. Ramos, Fabre, Dubois. *Compatibility between solid particles and a lamellar phase: a crucial role of the membrane interactions*, J Phys Chem 100, 4533 (1996).
2. Ramos, Fabre. *Swelling of a lyotropic hexagonal phase by monitoring the radius of the cylinders*, Langmuir 13, 682 (1997).
3. Ramos, Fabre, Ober. *Existence, stability and structure of a hexagonal phase doped with nanoparticles*, Eur Phys J B 1, 319 (1998).
4. Ramos, Fabre, Fruchter. *Magnetic field induced instabilities of a doped lyotropic hexagonal phase*, Eur Phys J 8, 67 (1999).
5. Zapotocky, Ramos, Poulin, Lubensky, Weitz. *Particle-stabilized defect gel in cholesteric liquid crystals*, Science 283, 209 (1999).
6. Aranda-Espinoza, Chen, Dan, Lubensky, Nelson, Ramos, Weitz. *Electrostatic repulsion of positively charged vesicles and negatively charged objects*, Science 285, 394 (1999).
7. Ramos, Lubensky, Dan, Nelson, Weitz. *Surfactant-mediated two-dimensional crystallization of colloidal crystals*, Science 286, 2325 (1999).
8. Ramos, Fabre, Nallet, Lu. *Light scattering with swollen hexagonal phases*, Eur Phys J E 1, 285 (2000).
9. Ramos, Molino, Porte. *Shear melting in lyotropic hexagonal phases*, Langmuir 16, 5846 (2000).
10. Ramos, Molino. *Scaling of the elastic modulus of highly swollen hexagonal phases*, Europhys Lett 51, 320 (2000).
11. Ramos, Weitz. *Patterned colloidal coating using adhesive emulsions*, Langmuir 17, 2275 (2001).
12. Ramos. *Scaling with temperature and concentration of the nonlinear rheology of a soft hexagonal phase*, Phys Rev E 64, 061502, (2001).
13. Ramos, Cipelletti. *Ultraslow dynamics and stress relaxation in the aging of a soft glassy system*, Phys Rev Lett 87, 245503 (2001).
14. Massiera, Ramos, Ligoure. *Role of the size distribution on the elasticity of a model entangled polymer solution*, Europhys Lett 57, 127 (2002).
15. Massiera, Ramos, Ligoure. *Hairy wormlike micelles: Structure and interactions*, Langmuir, 18, 5687 (2002).
16. Cipelletti, Ramos. *Slow dynamics in glasses, gels and foams*, Curr Opinion Colloids Interface Sci 7, 228 (2002) (invited review).
17. Ramos, Zapotocky, Lubensky, Weitz. *Rheology of defect networks in cholesteric liquid crystals*, Phys Rev E 66, 031711 (2002).
18. Massiera, Pitard, Ramos, Ligoure. *Structure factor of polymers interacting via a short-range repulsive potential: application to hairy wormlike micelles*, Phys Rev E 68, 021803 (2003).
19. Ramos, Molino. *Shear-melting of a hexagonal columnar crystal by proliferation of dislocations*, Phys Rev Lett 92, 018301 (2004).
20. Ramos. *Time-resolved synchrotron x-ray scattering of the crystallization of a soft hexagonal columnar crystal*, Langmuir 20, 2215 (2004).
21. Ramos, Roux, Olmsted, Cates. *Equilibrium onions?*, Europhys Lett 66, 888 (2004).
22. Cipelletti, Ramos. *Slow dynamics in glassy soft matter*, J Phys: Cond Matter 17, R253 (2005) (invited review).
23. Vivares, Ramos. *Polyelectrolyte-induced peeling of charged multilamellar vesicles*, Langmuir 21, 2185 (2005).
24. Surendran, Tokumoto, Pena dos Santos, Remita, Ramos, Kooyman, Santilli, Bourgaux, Dieudonné, Prouzet. *Highly swollen liquid crystals as new reactors for the synthesis of nanomaterials*, Chem Mater 17, 1505 (2005).
25. Gambin, Massiera, Ramos, Ligoure, Urbach. *Bounded step superdiffusion in an oriented hexagonal phase*, Phys Rev Lett 94, 110602 (2005).
26. Ramos\*, Cipelletti. *Intrinsic aging and effective viscosity in the slow dynamics of a soft glass with tunable elasticity*, Phys Rev Lett 94, 158301 (2005).
27. Pena dos Santos, Tokumoto, Surendran, Remita, Bourgaux, Dieudonné, Prouzet, Ramos\*. *Existence and stability of new nanoreactors: highly swollen hexagonal liquid crystals*, Langmuir 21, 4362 (2005).
28. Surendran, Apostolescu, Tokumoto, Prouzet, Ramos, Beaunier, Kooyman, Etcheberry, Remita. *From self-assembly of platinum particles to nanostructured materials*, Small 10, 964 (2005).
29. Mazoyer, Cipelletti, Ramos. *Origin of the slow dynamics and the aging of a soft glass*, Phys Rev Lett 97, 238301 (2006).
30. Bauer, Oberdisse, Ramos. *Collective rearrangement at the onset of flow of a polycrystalline hexagonal columnar phase*, Phys Rev Lett 97, 258303 (2006).
31. Ramos, Ligoure. *Structure of a new type of transient network: entangled wormlike micelles bridged by telechelic polymers*, Macromolecules 40, 1248 (2007).
32. Ramos, Schönhoff, Luan, Möhwald, Brezesinski. *Electrostatic interactions between polyelectrolyte and amphiphiles in two- and three-dimensional systems*, Colloids Surf A 303, 79 (2007) (invited review).

33. Luan, Ramos. *Role of the preparation procedure in the formation of spherical and monodisperse surfactant/polyelectrolyte complexes*, Chem Eur J 13, 6108 (2007).
34. Surendran, Ramos, Pansu, Prouzet, Beaunier, Audonnet, Remita. *Synthesis of porous platinum nanoballs in soft templates*, Chem Mater. 19, 5045 (2007).
35. Luan, Ramos. *Real-time observation of polyelectrolyte-induced binding of charged bilayers*, J Am Chem Soc 129, 14619 (2007).
36. Trappe, Pitard, Ramos, Robert, Bissig, Cipelletti. *Investigation of q-dependent dynamical heterogeneity in a colloidal gel by x-ray photon correlation spectroscopy*, Phys Rev E 76, 051404 (2007).
37. Nakaya-Yaegashi, Ramos, Tabuteau, Ligoure. *Linear viscoelasticity of entangled wormlike micelles bridged by telechelic polymers: an experimental model for a double transient network*, J Rheology, 52, 359 (2008).
38. Ramos, Ligoure. *Copolymer-induced stabilizing effect of highly swollen hexagonal mesophases*, Langmuir, 24, 5221 (2008).
39. Claessens, Semmrich, Ramos, Bausch. *Helical twist controls the thickness of F-actin bundles*, Proc Natl Acad Sci USA 105, 8819 (2008).
40. Surendran, Ksar, Ramos, Keita, Nadjo, Prouzet, Beaunier, Dieudonné, Audonnet, Remita. *Palladium nanoballs synthesized in hexagonal mesophases*, J Phys Chem C 112, 10740 (2008).
41. Carvalho, Ramos, Roy, Picart. *Giant unilamellar vesicles containing phosphatidylinositol(4,5) biphosphate: characterization and functionality*. Biophys J 95, 4348 (2008).
42. Mazoyer, Cipelletti, Ramos. *Direct-space investigation of the ultraslow ballistic dynamics of a soft glass*, Phys Rev E 79, 011501 (2009).
43. Tabuteau, Ramos, Nakaya-Yaegashi, Imai, Ligoure. *Nonlinear rheology of surfactant wormlike micelles bridged by telechelic polymers*, Langmuir 25, 2467 (2009).
44. Ksar, Surendran, Ramos, Keita, Nadjo, Prouzet, Beaunier, Hagège, Audonnet, Remita. *Palladium nanowires synthesized in hexagonal Mesophases: Application in Ethanol Electrooxidation*, Chem Mater 21, 1612 (2009).
45. Ksar, Ramos, Keita, Nadjo, Beaunier, Remita. *Bimetallic palladium-gold nanostructures: application in ethanol oxidation*, Chem Mater 21, 3677 (2009).
46. Siril, Ramos, Beaunier, Archirel, Etcheberry, Remita. *Synthesis of ultrathin hexagonal palladium nanosheets*, Chem Mater 21, 5170 (2009).
47. Tixier, Tabuteau, Carrière, Ramos, Ligoure. *Transition from “brittle” to “ductile” rheological behavior by tuning the morphology of self-assembled networks*, Soft Matter 6, 2699 (2010).
48. Carvalho, Khalifat, Maniti, Nicolas, Arold, Picart, Ramos. *Phosphatidylinositol 4,5-bisphosphate-induced conformational change of ezrin and formation of ezrin oligomers*, Biochem 49, 9318 (2010).
49. Ramos, Laperrousaz, Dieudonné, Ligoure. *Structural signature of a brittle-to-ductile transition in self-assembled networks*, Phys Rev Lett 107, 148302 (2011).
50. Ghofraniha, Tamborini, Oberdisse, Cipelletti, Ramos. *Grain refinement and partitioning of impurities in the grain boundaries of a colloidal polycrystal*, Soft Matter 8, 6214 (2012). (cover)
51. Tamborini, Ghofraniha, Oberdisse, Cipelletti, Ramos. *Structure of nanoparticles embedded in micellar polycrystals*, Langmuir 28, 8562 (2012).
52. Maniti, Khalifat, Goggia, Dalonneau, Guérin, Blanchoin, Ramos, Picart. *Binding of Moesin and Ezrin to membranes containing phosphatidylinositol (4,5) bisphosphate: a comparative study of the affinity constants and conformational changes*, BiophysicaBiochimica Acta 1818, 2839 (2012).
53. Siril, Lehoux, Ramos, Beaunier, Remita. *Facile synthesis of palladium nanowires by a soft templating method*, New J Chem 36, 2135 (2012).
54. Lehoux, Ramos, Beaunier, Bahena Uribe, Dieudonné, Audonnet, Etcheberry, José-Yacaman, Remita. *Tuning the porosity of bimetallic nanostructures by a soft templating approach*, Adv Funct Materials 22, 4900 (2012) (frontpiece).
55. Louhichi, Tamborini, Ghofraniha, Caton, Roux, Oberdisse, Cipelletti, Ramos. *Nucleation and growth of micellar polycrystals under time-dependent volume fraction conditions*, Phys Rev E 87, 032306 (2013).
56. Foyart, Ramos, Mora, Ligoure. *The fingering to fracturing transition in a transient gel*, Soft Matter 9, 7778 (2013).
57. Ghosh, Remita, Ramos, Dazzi, Deniset-Besseau, Beaunier, Goubard, Aubert, Brisset, Remita. *PEDOT nanostructures synthesized in hexagonal mesophases*, New J Chem 38, 1106 (2014).
58. Tamborini, Cipelletti, Ramos. *Plasticity of a colloidal polycrystal under cyclic shear*, Phys Rev Lett 113, 078301 (2014).
59. Dahesh, Banc, Duri, Morel, Ramos. *Polymeric assembly of gluten proteins in an aqueous ethanol solvent*, J Phys Chem B 118, 11065 (2014).
60. Vernay, Ramos\*, Ligoure. *Free radially expanding liquid sheet in air: time- and space-resolved measurement of the thickness field*, J Fluid Mech 764, 428 (2015).
61. Ghosh, Kouamé, Ramos, Remita, Dazzi, Deniset-Besseau, Beaunier, Goubard, Aubert, Remita. *Conducting polymer nanostructures for photocatalysis under visible light*, Nature Materials, 14, 505 (2015).

62. Louhichi, Tamborini, Oberdisse, Cipelletti, Ramos. *Viscoelasticity of colloidal polycrystals doped with impurities*, Phys Rev E 92, 032307 (2015).
63. Ghosh, Ramos, Remita, Dazzi, Deniset-Besseau, Beaunier, Goubard, Aubert, Remita. *Conducting polymer nanofibers of controlled diameter synthesized in hexagonal mesophases*, New J Chem 39, 8311 (2015).
64. Vernay, Ramos, Ligoure. *Bursting of dilute emulsion-based liquid sheets driven by a Marangoni effect*, Phy. Rev Lett 115, 198302 (2015).
65. Ghosh, Kouamé, Remita, Ramos, Goubard, Aubert, Dazzi, Deniset-Besseau, Remita. *Visible-light active conducting polymer nanostructures with superior photocatalytic activity*, Scientific Report, 5, 18002 (2015).
66. Vernay, Ramos, Douzals, Goyal, Castaing, Ligoure. *Drop impact experiment as a model experiment to investigate the role of oil-in-water emulsions in controlling the drop size distribution of an agricultural spray*, Atomization and Sprays 26, 827 (2016).
67. Dahesh, Banc, Duri, Morel, Ramos. *Spontaneous gelation of wheat gluten proteins in a food grade solvent*, Food Hydrocolloids, 52, 1 (2016).
68. Banc, Charbonneau, Dahesh, Appavou, Fu, Morel, Ramos. *Small angle neutron scattering contrast variation reveals heterogeneities of interactions in protein gels*, Soft Matter 12, 5340 (2016).
69. Aime, Ramos, Fromental, Prévot, Jelinek, Cipelletti. *A stress-controlled shear cell for small-angle light scattering and microscopy*, Review Scientific Instruments 87, 123907 (2016).
70. Arora, Ligoure, Ramos. *Interplay between viscosity and elasticity in freely expanding liquid sheets*, Physical Review Fluids 1, 083302 (2016).
71. Foyart, Ligoure, Mora, Ramos. *Rearrangement zone around a crack tip in a double self-assembled transient network*, ACS Macroletters 5, 1080 (2016).
72. Vernay, Ramos, Würger, Ligoure. *Playing with emulsion formulation to control the perforation of a freely expanding liquid sheet*. Langmuir 33, 3458 (2017).
73. Banc, Dahesh, Wolf, Morel, Ramos. *Model gluten gels*. Journal of Cereal Science 75, 175 (2017).
74. Floresyona, Goubard, Aubert, Lampre, Mathurina, Dazzia, Ghosh, Beaunier, Brisset, Remita, Ramos, Remita. *Highly active poly(3-hexylthiophene) nanostructures for photocatalysis under solar light*. Applied Catalysis B 209, 23 (2017)
75. Arora, Shabbir, Hassager, Ligoure, Ramos. *Brittle fracture of polymer transient networks*. J Rheology, in press.
76. Aime, Ramos, Cipelletti. *Microscopic dynamics and failure precursors during the creep of a colloidal gel*. Submitted.
77. Arora, Arora, Fromental, Mora, Phou, Ramos, Ligoure. *Impact of beads and drops on a solid surface: a unified description*. Submitted.

### Invited Conferences

1. *Particle-stabilized defect gel in cholesteric liquid crystals*. Third Annual Symposium on the Physics of Soft Materials, University of Pennsylvania, Philadelphia, Etats-Unis, 1998.
2. *Aging of lamellar gels*. “Physical and Biophysical Aspects of Complex Fluids”, The Third Binational Franco-Israeli Conference, Tel-Aviv, Israel, 2002.
3. *Aging and rheology in a multilamellar vesicle system*. “Complex Fluids”, Gordon Research Conference, Oxford, Royaume-Uni, 2002.
4. *Dynamique lente et vieillissement dans un matériau désordonné mou*. Congrès Général Société Française de Physique, Lyon, 2003.
5. *Defect network, mechanical properties and aging dynamics in lamellar materials*. “Liquid Crystal Colloid Dispersions”, ESF Exploratory Workshop, Bled, Slovénie, 2003.
6. *Shear-melting of a hexagonal columnar crystal by proliferation of dislocation*. “Jamming, Yielding and Irreversible Deformation in Condensed Matter”, XIX Sitges Conference, Barcelona, Espagne, 2004.
7. *Creep, flow, shear-melting and crystallization of a soft hexagonal columnar crystal*. “Dynamical Phenomena in Soft Matter” ESRF Workshop, Grenoble, 2006.
8. *Creep, flow and shear-melting of a soft hexagonal columnar crystal*. “Crackling Noise”, ESF Exploratory Workshop, Turin, Italie, 2006.
9. *Biomimetic membranes to investigate the interplay between specific proteins and lipids with actin*. 13th Int. Conf. on Surface and Colloid Sci. and the 83rd ACS Colloid & Surface Science symposium, New-York, USA, 2009.
10. *Scattering under shear to understand the plasticity and flow of soft materials*. “Scattering and Complementary Techniques”, PSCM workshop on Grenoble, 2009.
11. *Plasticity and flow of soft crystalline materials*. “Structural Rheology”, International Workshop on Soft Matter Physics, Institute for Solid State Physics, Tokyo, Japon, 2010.
12. *Plasticité et écoulement de matériaux mous cristallins*. Conférence semi-plénière aux 12<sup>èmes</sup> Journées de la Matière Condensée, Troyes, 2010.

13. *Colloidal metallurgy: crystallization and plasticity of a colloidal analog of metallic alloys*. “The role of interfaces in crystallization”, CECAM workshop, Lausanne, Suisse, 2013.
14. *Grain-boundary dynamics and plasticity of a colloidal polycrystal*. “From cooperativity in supercooled liquids to plasticity in amorphous solids”, CECAM workshop, Zurich, Suisse, 2013.
15. *Métallurgie colloïdale: utilisation d’un analogue colloïdal pour étudier la plasticité des polycristaux*, “Mécanique et Physique des Suspensions”. Fédération Galileo Galilei, Grenoble, 2014.
16. *Non-linear rheology and fracture in polymer-based viscoelastic fluids*. 23<sup>ème</sup> Congrès Général de la Société Française de Physique, Strasbourg, 2015.
17. *Plasticity and onset of yielding of a soft colloidal gel*. Plasticité 2016, Poitiers, 2016.
18. *Microscopic dynamics during the creep of a colloidal gel*. “Statistical Physics of Materials”, StatPhys Satellite meetings, Aussois, 2016.
19. *Dynamics of thin sheets of complex fluids and ultrasoft solids freely expanding in air*. Keynote à Annual European Rheology Conference, Copenhague, Danemark, 2017.
20. *Impact of drops and beads of gel*. “Rheology of gel networks”, CECAM workshop, Lyon, 2017.

### Proceedings

- P1. Ramos, Fabre. *Elasticity of a swollen hexagonal phase*, Prog Colloid Polymer Sci 110, 240 (1998).
- P2. Massiera, Ramos, Pitard, Ligoure. *Steric polymer layer of hairy wormlike micelles*, J Phys: Cond Matter 15, S225 (2003).
- P3. Cipelletti, Ramos, Manley, Pitard, Weitz, Pashkovski, Johansson. *Universal non-diffusive slow dynamics in aging soft matter*, Faraday Discussion 123, 237 (2003).
- P4. Tokumoto, Surendran, dos Santos, Kooyman, Remita, Ramos, Prouzet. *Synthesis of nanomaterials in highly swollen liquid crystals*, Mat Res Soc Symp Proc 847, 107 (2005).
- P5. Surendran, Ramos, Prouzet, Remita, *Nanostructured metal synthesized in Swollen Liquid Crystals*, NSTI Nanotechnology Boston 1, 38 (2006).
- P6. Tabuteau, Mora, Ramos, Porte, Ligoure. *Ductility versus brittleness in self-assembled transient networks*, Progress of Theoretical Physics (supplement) **175**, **47** (2008).

### Outreach articles

1. *Crystallites seem to defy basic physical principle*, University Science, Juillet 1999.
2. *Two-dimensional colloidal crystals seemingly defy Coulomb’s law*, AIP Bulletin of Physics News and Physics News graphics <http://www.aip.org/pnu/2000/split/pnu464-2.htm>, <http://www.aip.org/png/html/colloids.html> 1999
3. *Exploit adhesion in emulsions to create patterned coatings*, Advanced Coatings & Surface Technology Alert, Frost & Sullivan, New York, NY, 2001.
4. *Contrôler la croissance et la texture d’un polycristal modèle*, <http://www.cnrs.fr/inc/spip.php?article959>, actualité scientifique de l’Institut de Physique, CNRS, 2012.
5. *Investigating the plasticity of a colloidal polycrystal at the Laboratoire Charles Coulomb*, CNRS/University of Montpellier 2, International Labmate, Vol.37, 2012, [www.labmate-online.com](http://www.labmate-online.com).
6. *Nanomatériaux bimétalliques: enfin un contrôle de la porosité 3D et de la composition!*, ([http://www.cnrs.fr/inc/communication/direct\\_labos/remita.htm](http://www.cnrs.fr/inc/communication/direct_labos/remita.htm)) actualité Institut de Chimie, CNRS, 2012
7. *Colloidal metallurgy: investigating the structure of nanoparticles embedded in micellar polycrystals*, Annual Report Laboratoire Léon Brillouin, 2012.
8. *Une nouvelle classe de photocatalyseurs activés par la lumière visible*, actualité Institut de Chimie, CNRS, 2015 ([http://www.cnrs.fr/inc/communication/direct\\_labos/remita2.htm](http://www.cnrs.fr/inc/communication/direct_labos/remita2.htm))
9. *Quand des superatomes s’ordonnent: la physique des cristaux colloïdaux*, L. Cipelletti and L. Ramos, Reflets de la Physique, N°44-45, 2015.
10. *Bursting mechanism of dilute emulsion-based liquid sheets: anti-drift application for agricultural sprays*, C Vernay, L. Ramos and C. Ligoure, SoftComp News Letter, N°13, 2015.