

## **Luc BELLONI**

DRF/IRAMIS/LIONS/LIONS  
CEA/SACLAY

## **BIBLIOGRAPHIE**

### **PUBLICATIONS :**

- 1- Raman study of  $\text{CF}_4$  in liquid Ar. Molecular motions and transition dipole interaction  
*Mol. Phys.* 49, 1375 (1983)  
Ph. Nectoux, M. Drifford, L. Belloni, A. Vinit
- 2- Counterion diffusion in polyelectrolyte solutions  
*Chem. Phys.* 83, 147 (1984)  
L. Belloni, M. Drifford, P. Turq
- 3- Non-ideality in multicomponent diffusion of polyelectrolyte solutions  
L. Belloni, M. Drifford, P. Turq  
*J. Physique Lett.* 46, L207 (1985)
- 4- On the effect of small ions in the dynamics of polyelectrolyte solutions  
L. Belloni, M. Drifford  
*J. Physique Lett.* 46, L1183 (1985)
- 5- A hypernetted chain study of highly asymmetrical polyelectrolytes  
L. Belloni  
*Chem. Phys.* 99, 43 (1985)
- 6- Light scattering on micellar and polyelectrolyte solutions : influence of added salt  
M. Drifford, L. Belloni, J.P. Dalbiez, A.K. Chattopadhyay  
*J. Coll. Interf. Sci.* 105, 587 (1985)
- 7- Effect of interfacial charge on micellar structure  
Y. Chevalier, L. Belloni, J.B. Hayter, Th. Zemb  
*J. Physique* 46, 749 (1985)
- 8- Electrostatic interactions in colloidal solutions : comparison between primitive and one-component models  
L. Belloni  
*J. Chem. Phys.* 85, 519 (1986)
- 9- Spinodal curve in highly asymmetrical polyelectrolytes  
L. Belloni  
*Phys. Rev. Lett.* 57, 2026 (1986)
- 10- Two-sphere hydrodynamic interactions and mobilities in a porous medium  
S. Walrand, L. Belloni, M. Drifford  
*Physics Lett. A* 118, 422 (1986)
- 11- Diffusion in concentrated micellar and hard sphere systems  
S. Walrand, L. Belloni, M. Drifford  
*J. Physique* 47, 1565 (1986)
- 12- Mutual diffusion coefficient in concentrated solutions of attractive hard spheres  
S. Walrand, L. Belloni, M. Drifford  
*Europhys. Lett.* 4, 591 (1987)
- 13- Quasielastic light scattering studies on tetradecyltrialkylammonium bromide  
A.K. Chattopadhyay, L. Belloni, M. Drifford, M. Dubois  
*Surfactants in solution* vol.4, ed. K.L. Mittal, P. Bothorel (Plenum Publishing Corp. 4, 217, 1987)
- 14- Light scattering on concentrated micellar systems : influence of monomers  
M. Drifford, L. Belloni, M. Dubois  
*J. Coll. Interf. Sci.* 118, 50 (1987)
- 15- Contribution of small ions to the scattered intensity in the hypernetted chain approximation : application to micellar solutions  
P.J. Dérian, L. Belloni, M. Drifford

J. Chem. Phys. 86, 5708 (1987)

16- Direct measurement of partial structure factors in micellar solutions by small angle neutron scattering  
P.J. Dérian, L. Belloni, M. Drifford  
Europhys. Lett. 7, 243 (1988)

17- Self-consistent integral equation applied to the highly charged primitive model  
L. Belloni  
J. Chem. Phys. 88, 5143 (1988)

18- Electrostatic interactions in surfactant solution  
M. Drifford, P.J. Dérian, L. Belloni  
Reactive and flexible molecules in liquids, ed. Th. Dorfmüller (Kluwer Academic Publ., 309, 1989)

19- Surface charging process in colloidal suspensions : a new statistical approach  
O. Spalla, L. Belloni  
J. Chem. Phys. 95, 7689 (1991)

20- Slow dynamics in polyelectrolyte solutions  
M. Drifford, J.P. Dalbiez, L. Belloni, O. Spalla  
Slow dynamics in condensed matter, AIP Conference Proceedings, ed. Kawasaki, Tokuyama, Kawakatsu (1991)

21- The charge structure factor of a 1-1 electrolyte in solution  
W. Kunz, P. Calmettes, G. Jannink, L. Belloni, T. Cartailler, P. Turq  
J. Chem. Phys. 96, 7034 (1992)

22- Osmotic pressure ans salt exclusion in electrostatically swollen lamellar phases  
M. Dubois, Th. Zemb, L. Belloni, A. Delville, P. Levitz, R. Setton  
J. Chem. Phys. 96, 2278 (1992)

23- Osmotic pressure of highly charged swollen bilayers  
Th. Zemb, L. Belloni, M. Dubois, S. Marcelja  
Progr. Colloid Polym. Sci. 89, 33 (1992)

24- Inability of the hypernetted chain integral equation to exhibit a spinodal line  
L. Belloni  
J. Chem. Phys. 98, 8080 (1993)

25- Phase diagram of polyelectrolyte solution in presence of multivalent salts  
M. Delsanti, J.P. Dalbiez, O. Spalla, L. Belloni, M. Drifford  
Macroion characterization : from dilute solutions to complex fluids, ACS Symp. Ser. 548, 381 (1994)

26- Osmotic pressure of latex dispersions  
C. Bonnet-Gonnet, L. Belloni, B. Cabane  
Langmuir 10, 4012 (1994)

27- Polyelectrolyte Solutions + Multivalent salts = Phase separation  
L. Belloni, M. Olvera de la Cruz, M. Delsanti, J.P. Dalbiez, O. Spalla, M. Drifford  
Il Nuovo Cimento 16, 727 (1994)

28- Structural and thermodynamical properties of charged silica dispersions  
J. Chang, P. Lesieur, M. Delsanti, L. Belloni, C. Bonnet-Gonnet, B. Cabane  
J. Phys. Chem. 99, 15993 (1995)

29- Long range electrostatic attraction between neutral surfaces  
O. Spalla, L. Belloni  
Phys. Rev. Lett. 74, 2515 (1995)

30- Precipitation of highly charged polyelectrolyte solutions in the presence of multivalent salts  
M. Olvera de la Cruz, L. Belloni, M. Delsanti, J.P. Dalbiez, O. Spalla, M. Drifford  
J. Chem. Phys. 103, 5781 (1995)

31- Spectres de diffusion et pression osmotique de suspensions colloïdales de particules de latex chargées  
V. Reus, L. Belloni, Th. Zemb, N. Lutterbach, H. Versmold  
J. Chim. Phys. 92, 1233 (1995)

32- Structure and dynamics of polyelectrolyte solutions with multivalent salts  
M. Drifford, J.P. Dalbiez, M. Delsanti, L. Belloni  
Ber. Bunsenges. Phys. Chem. 100, 829 (1996)

- 33- Attraction of pure electrostatic origin between small colloids  
 L. Belloni, O. Spalla  
*Ber. Bunsenges. Phys. Chem.* 100, 905 (1996)
- 34- Stability of nanometric suspensions and effect of surface complexation : an X-ray study  
 V. Peyre, L. Belloni, O. Spalla, M. Nabavi  
*J. Chim. Phys.* 93, 932 (1996)
- 35- Interaction, lipid exchange, and effect of vesicle size in systems of oppositely charged vesicles  
 V. Marchi-Artzner, L. Jullien, L. Belloni, D. Raison, L. Lacombe, J.M. Lehn  
*J. Phys. Chem.* 100, 13844 (1996)
- 36- Osmotic equilibrium between an ionic magnetic fluid and an electrostatic lamellar phase  
 C. Ménager, L. Belloni, V. Cabuil, M. Dubois, T. Gulik-Krzywicki, Th. Zemb  
*Langmuir* 12, 3516 (1996)
- 37- Equation of state of a colloidal crystal : an USAXS and osmotic pressure study  
 V. Reus, L. Belloni, Th. Zemb, N. Lutterbach, H. Versmold  
*Progr. Colloid Polym. Sci.* 100, 54 (1996)
- 38- A model of attractive interactions to account for fluid-fluid phase separation of protein solutions  
 M. Malfois, F. Bonneté, L. Belloni, A. Tardieu  
*J. Chem. Phys.* 105, 3290 (1996)
- 39- Equation of state and structure of electrostatic colloidal crystals : osmotic pressure and scattering study  
 V. Reus, L. Belloni, Th. Zemb, N. Lutterbach, H. Versmold  
*J. Phys. II* 7, 603 (1997)
- 40- Stability of a nanometric zirconia colloidal dispersion under compression : effect of surface complexation by acetylacetone  
 V. Peyre, O. Spalla, L. Belloni, M. Nabavi  
*J. Coll. Interf. Sci.* 187, 184 (1997)
- 41- Attraction of electrostatic origin between colloids  
 L. Belloni, O. Spalla  
*J. Chem. Phys.* 107, 465 (1997)
- 42- Ionic condensation and charge renormalization in colloidal suspensions  
 L. Belloni  
*Colloids Surf. A* 140, 227 (1998)
- 43- Integral equation theory of flexible polyelectrolytes. I – Debye-Hückel approach  
 M. Dymitrowska, L. Belloni  
*J. Chem. Phys.* 109, 4659 (1998)
- 44- Phase equilibria and equation of state of a mixed cationic surfactant - glycolipid lamellar system  
 F. Ricoul, M. Dubois, L. Belloni, Th. Zemb  
*Langmuir* 14, 2645 (1998)
- 45- Charge-stabilized liquidlike ordered binary colloidal suspensions. 1- Ultra-small-angle X-ray scattering characterization  
 N. Lutterbach, H. Versmold, V. Reus, L. Belloni, Th. Zemb  
*Langmuir* 15, 337 (1998)
- 46- Charge-stabilized liquidlike ordered binary colloidal suspensions. 2- Partial structure factors determined by small-angle neutron scattering  
 N. Lutterbach, H. Versmold, V. Reus, L. Belloni, Th. Zemb  
*Langmuir* 15, 345 (1998)
- 47- Proteins in solution : from X-ray scattering intensities to interaction potentials  
 A. Tardieu, A. Le Verge, M. Malfois, F. Bonneté, S. Finet, M. Riès-Kautt, L. Belloni  
*J. Crystal Growth* 196, 193 (1999)
- 48- Coulombic interaction and ion-protein macroion coupled diffusion evidenced by light scattering  
 P. Retailleau, M. Riès-Kautt, A. Ducruix, L. Belloni, S.J. Candau, J.P. Munch  
*Europhys. Lett.* 46, 154 (1999)
- 49- Compression and reswelling of nanometric zirconia dispersions : effect of surface complexants  
 V. Peyre, O. Spalla, L. Belloni  
*J. Am. Ceram. Soc.* 82, 1121 (1999)

50- Attractive interactions between reverse aggregates and phase separation in concentrated malonamide extractant solutions  
C. Erlinger, L. Belloni, Th. Zemb, Ch. Madic  
Langmuir 15, 2290 (1999)

51- Fusion of colloidal crystals induced by monovalent and asymmetric salt : an osmotic pressure and ultra-small-angle X-ray scattering study  
V. Reus, L. Belloni, Th. Zemb, N. Lutterbach, H. Versmold  
Colloid Surf. A 151, 449 (1999)

52- Integral equation of flexible polyelectrolytes. II. Primitive model approach  
M. Dymitrowska, L. Belloni  
J. Chem. Phys. 111, 6633 (1999)

53- Combining USAXS with osmotic pressure measurements: a tool for investigating the equation of states of diluted charged colloids  
S. Lyonnard, L. Belloni, V. Reus, Th. Zemb  
J. Appl. Crys. 33, 582 (2000)

54- Eccentric Poisson-Boltzmann cell model  
H.H. von Grünberg, L. Belloni  
Phys. Rev. E 62, 2493 (2000)

55- Colloidal interactions  
L. Belloni  
J. Phys. : Cond. Matter 12, R549 (2000) (*article de revue*)

56- Mixtures of charged colloids and nonadsorbing flexible polyelectrolytes: an integral equation study  
P.G. Ferreira, M. Dymitrowska, L. Belloni  
J. Chem. Phys. 113, 1 (2000)

57- Interactions between charged colloids in semi-dilute polyelectrolyte  
L. Belloni, P.G. Ferreira  
Phil. Trans. R. Soc. Lond. A 359, 868 (2001)

58- Counterion distribution in a spherical charged sparse brush  
F. Müller, P. Fontaine, M. Delsanti, L. Belloni, J. Yang, Y.J. Chen, J.W. Mays, P. Lesieur, M. Tirrell, P. Guenoun  
Eur. Phys. J. E 6, 109 (2001)

59- Interaction between isolated nucleosome core particles: a tail-bridging effect?  
S. Mangenot, E. Raspaud, C. Tribet, L. Belloni, F. Livolant  
Eur. Phys. J. E 7, 221 (2002)

60- Catching the PEG-induced attractive interaction between proteins  
D. Vivares, L. Belloni, A. Tardieu, F. Bonneté  
Eur. Phys. J. E 9, 15 (2002)

61- Colloid-counterion mixtures: an advanced integral equation  
L. Belloni  
J. Phys.: Condens. Matter 14, 9323 (2002)

62- Monte-Carlo simulations of star-branched polyelectrolyte micelles  
M. Roger, P. Guenoun, F. Muller, L. Belloni, M. Delsanti  
Eur. Phys. J. E 9, 313 (2002)

63- Counterion distribution in urchinlike charged copolymer micelles. Monte Carlo simulation and small angle X-ray scattering  
L. Belloni, M. Delsanti, P. Fontaine, F. Muller, J.W. Mays, P. Boesecke, M. Alba, P. Guenoun  
J. Chem. Phys. 119, 7560 (2003)

64- Equation of state of self-assembled disc-like and icosahedral crystallites in the dilute range  
A. Meister, M. Dubois, L. Belloni, T. Zemb  
Langmuir 19, 7259 (2003)

65- Light, neutron, X-ray scattering and conductivity measurements on aqueous dodecyltrimethylammonium bromide/1-hexanol solutions  
H. Preu, C. Schirmer, M. Tomsic, M. Bester Rogac, A. Jamnik, L. Belloni, W. Kunz  
J. Phys. Chem. B 107, 13862 (2003)

66- Can we use area per surfactant as a quantitative test model of specific ion effects ?  
T. Zemb, L. Belloni, M. Dubois, A. Arroti, E. Leontidis

Curr. Op. Coll. Interf. Sci. 9, 74 (2004)

67- Osmotic coefficients and surface tensions of aqueous electrolyte solutions : role of dispersion forces  
W. Kunz, L. Belloni, O. Bernard, B.W. Ninham  
J. Phys. Chem. B 108, 2398 (2004)

68- The role of counterions on the elasticity of highly charged lamellar phases: a small-angle x-ray and neutron scattering determination  
G. Brotons, M. Dubois, L. Belloni, I. Grillo, T. Narayanan, T. Zemb  
J. Chem. Phys. 123, 24704 (2005)

69- Specific ion adsorption on Zwitterionic bilayers: Charge regulation and ionic screening of dispersion forces  
H. Petrache, L. Belloni, T. Zemb, A. Parsegian  
Biophys. J. 88, 236A (2005)

70- Yes, pair correlations alone do determine sedimentation profiles of highly charged colloids  
L. Belloni  
J. Chem. Phys. 123, 204705 (2005)

71- Temperature effects on the composition and microstructure of spray dried nanocomposite powders  
D. Sen, O. Spalla, L. Belloni, T. Charpentier, A. Thill  
Langmuir 22, 3798 (2006)

72- Elasticity of fluctuating charged membranes probed by X-ray grazing-incidence diffuse scattering  
G. Brotons, L. Belloni, Th. Zemb, T. Salditt  
Europhys. Lett. 75, 992 (2006)

73- Salt screening and specific ion adsorption determine neutral-lipid membrane interactions  
H.I. Petrache, Th. Zemb, L. Belloni, V.A. Parsegian  
Proc. Nat. Acad. Sci. USA 103, 7982 (2006)

74- Equation of state of colloids coated by polyelectrolyte multilayers  
M. Dubois, M. Schonhoff, A. Meister, L. Belloni, Th. Zemb, H. Moehwald  
Phys. Rev.E 74, 51402 (2006)

75- Macroion virial contribution to the osmotic pressure in charge-stabilized colloidal suspensions  
E. Trizac, L. Belloni, J. Dobnikar, H.H. von Grunberg, R. Castaneda-Priego  
Phys. Rev. E 75, 11401 (2007)

76- Ion exchange in catanionic mixtures: From ion pair amphiphiles to surfactant mixtures  
E. Maurer, L. Belloni, Th. Zemb, D. Carriere  
Langmuir 23, 6554 (2007)

77- Osmotic pressure in colloid science: clay dispersions, catanionics, polyelectrolyte complexes and polyelectrolyte multilayers  
D. Carriere, M. Page, M. Dubois, Th. Zemb, H. Colfen, A. Meister, L. Belloni, M. Shonhoff, H. Moehwald  
Coll. Surf. A 303, 137 (2007)

78- Effects of monovalent anions of the Hofmeister series on DPPC lipid Bilayers part II: Modeling the perpendicular and lateral equation-of-state  
E. Leontidis, A. Aroti, L. Belloni, M. Dubois, Th. Zemb  
Biophys. J. 93, 1591 (2007)

79- Specific ion adsorption and short-range interactions at the air aqueous solution interface  
V. Padmanabhan, J. Daillant, L. Belloni, S. Mora, M. Alba, O. Konovalov  
Phys.Rev.Lett. 99, 86105 (2007)

80- Ripening of cationic aggregates upon dialysis  
Y. Michina, D. Carrière, C. Mariet, M. Moskura, P. Berthault, L. Belloni, Th. Zemb  
Langmuir (décembre 2008)

81- Liquid expanded monolayers of lipids as model systems to understand the anionic Hofmeister series : 1. A tale of models  
E. Leontidis, A. Aroti, L. Belloni  
J. Phys. Chem.B 113, 1447 (2009)

82- In-plane distribution in mixtures of cationic and anionic surfactants  
D. Carrière, L. Belloni, B. Deme, M. Dubois, C. Vautrin, A. Meister, T. Zemb  
Soft Matter 5, 4983 (2009)

- 83- HNC calculations of specific ion effects  
L. Belloni, I. Chikina  
*Specific Ion Effects* (ed. W. Kunz, World Scientific, Singapore, 2010)
- 84- X-ray studies of ion specific effects  
P. Viswanath, L. Girard, J. Daillant, L. Belloni, O. Spalla, D. Novikov  
*Specific Ion Effects* (ed. W. Kunz, World Scientific, Singapore, 2010)
- 85- Ripening of catanionic aggregates upon dialysis  
Y. Michina et al.  
*Langmuir* 25, 698 (2009)
- 86- Liquid Expanded Monolayers of lipids as model systems to understand the anionic Hofmeister series: 1. A tale of models  
E. Leontidis, A. Aroti, L. Belloni  
*J. Phys. Chem. B* 113, 1447 (2009)
- 87- Physico-chemical Control over the Single- or Double-Wall Structure of Aluminogermanate Imogolite-like Nanotubes  
Thill, Antoine; Maillet, Perrine; Guiose, Beatrice; et al.  
*JOURNAL OF THE AMERICAN CHEMICAL SOCIETY* Volume: 134 Issue: 8 Pages: 3780-3786 Published: FEB 29 2012
88. Bridge function for the dipolar fluid from simulation  
Puibasset, Joel; Belloni, Luc  
*JOURNAL OF CHEMICAL PHYSICS* Volume: 136 Issue: 15 Article Number: 154503 Published: APR 21 2012
89. X-Ray Reflectivity at Polarized Liquid-Hg-Aqueous-Electrolyte Interface: Challenging Macroscopic Approaches for Ion-Specificity Issues  
BDuval, Jerome F. L.; Bera, Sambhunath; Michot, Laurent J.; et al.  
*PHYSICAL REVIEW LETTERS* Volume: 108 Issue: 20 Article Number: 206102 Published: MAY 15 2012
90. Spheres Growing on a Sphere: A Model to Predict the Morphology Yields of Colloidal Molecules Obtained through a Heterogeneous Nucleation Route  
Thill, Antoine; Desert, Anthony; Fouilloux, Sarah; et al.  
*LANGMUIR* Volume: 28 Issue: 31 Pages: 11575-11583 Published: AUG 7 2012
91. How the Diameter and Structure of  $(OH)(3)Al_2O_3SixGe_{1-x}OH$  Imogolite Nanotubes Are Controlled by an Adhesion versus Curvature Competition  
Thill, Antoine; Guiose, Beatrice; Bacia-Verloop, Maria; et al.  
*JOURNAL OF PHYSICAL CHEMISTRY C* Volume: 116 Issue: 51 Pages: 26841-26849 Published: DEC 27 2012
92. Single-step formation of micron long  $(OH)(3)Al_2O_3Ge(OH)$  imogolite-like nanotubes  
Amara, Mohamed-Salah; Paineau, Erwan; Bacia-Verloop, Maria; et al.  
*CHEMICAL COMMUNICATIONS* Volume: 49 Issue: 96 Pages: 11284-11286 Published: 2013
93. Efficient full Newton-Raphson technique for the solution of molecular integral equations - example of the SPC/E water-like system  
Belloni, Luc; Chikina, Ioulia  
*MOLECULAR PHYSICS* Volume: 112 Issue: 9-10 Pages: 1246-1256 Published: MAY 19 2014
94. Recycling metals by controlled transfer of ionic species between complex fluids: en route to "ienaiics"  
Zemb, Thomas; Bauer, Caroline; Bauduin, Pierre; et al.  
*COLLOID AND POLYMER SCIENCE* Volume: 293 Issue: 1 Pages: 1-22 Published: JAN 2015
95. Multipod-like silica/polystyrene clusters  
Desert, Anthony; Morele, Jeremy; Taveau, Jean-Christophe; et al.  
*NANOSCALE* Volume: 8 Issue: 10 Pages: 5454-5469 Published: 2016
96. Electrolytes at interfaces: accessing the first nanometers using X-ray standing waves  
ben Jabrallah, Soumaya; Malloggi, Florent; Belloni, Luc; et al.  
*PHYSICAL CHEMISTRY CHEMICAL PHYSICS* Volume: 19 Issue: 1 Pages: 167-174 Published: JAN 7 2017
97. A mechanism for the sphere/tube shape transition of nanoparticles with an imogolite local structure (imogolite and allophane)  
Thill, A.; Picot, P.; Belloni, L.  
*APPLIED CLAY SCIENCE* Volume: 141 Pages: 308-315 Published: JUN 2017
98. Efficient molecular density functional theory using generalized spherical harmonics expansions  
By: Ding, Lu; Levesque, Maximilien; Borgis, Daniel; et al.  
*JOURNAL OF CHEMICAL PHYSICS* Volume: 147 Issue: 9 Article Number: 094107 Published: SEP 7 2017

99. Exact molecular direct, cavity, and bridge functions in water system  
Belloni, Luc  
JOURNAL OF CHEMICAL PHYSICS Volume: 147 Issue: 16 Article Number: 164121 Published: OCT 28 2017
100. Finite-size corrections in simulation of dipolar fluids  
Belloni, Luc; Puibasset, Joel  
JOURNAL OF CHEMICAL PHYSICS Volume: 147 Issue: 22 Article Number: 224110 Published: DEC 14 2017
101. Screened Coulombic Orientational Correlations in Dilute Aqueous Electrolytes  
Belloni, Luc; Borgis, Daniel; Levesque, Maximilien  
JOURNAL OF PHYSICAL CHEMISTRY LETTERS Volume: 9 Issue: 8 Pages: 1985-1989 Published: APR 19 2018
102. What Does Second-Harmonic Scattering Measure in Diluted Electrolytes?  
Borgis, Daniel; Belloni, Luc; Levesque, Maximilien  
JOURNAL OF PHYSICAL CHEMISTRY LETTERS Volume: 9 Issue: 13 Pages: 3698-3702 Published: JUL 5 2018
103. Finite-size corrections in numerical simulation of liquid water  
Belloni, Luc  
JOURNAL OF CHEMICAL PHYSICS Volume: 149 Issue: 9 Article Number: 094111 Published: SEP 7 2018
104. Non-equilibrium Hybrid Insertion/Extraction through the 4th Dimension in Grand-Canonical Simulation  
L. Belloni  
submitted (2019)

## THESES ET RAPPORTS :

- *Dynamique moléculaire du mélange CF<sub>4</sub>/Ar par diffusion Raman. Equation de Poisson-Boltzmann pour l'étude de polyélectrolytes*

rappor de stage DEA de Physique des Liquides (ParisVI), effectué au Service de Chimie Moléculaire, CEA/Saclay (juin 1980)

directeurs de stage : M. Drifford, P. Turq

- *Interactions électrostatiques dans les solutions aqueuses de polyélectrolyte*

thèse de 3<sup>ème</sup> cycle, spécialité Physique des Liquides (Paris VI), effectuée au Service de Chimie Moléculaire, CEA/Saclay, soutenue le 1<sup>er</sup> février 1982

directeurs de thèse : M. Drifford, P. Turq

jury : S. Bratos, J.P. Hansen, P. Turq, J.B. Hayter, M. Drifford

- *Extraction d'ions dans le procédé SILVA*

L. Belloni

rappor CEA (confidentiel CEA), IRDI, Département de Physico-Chimie, CEA/Saclay (août 1983)

- *Statique et dynamique dans les solutions de polyélectrolytes sphériques*

thèse d'Etat, spécialité Physique des Liquides (Paris VI), effectuée au Service de Chimie Moléculaire, CEA/Saclay, soutenue le 19 mars 1987

directeur de thèse : M. Drifford

jury : P.G. de Gennes, B.J. Ackerson, S. Bratos, M. Drifford, J.P. Hansen, P. Rigny, P. Turq

- *Physique Statistique : propriétés d'équilibre et de structure*

cours au DEA de Matière Condensée, Chimie et Organisation (1991)

- *Interacting monodisperse and polydisperse spheres*

L. Belloni

Neutron, X-ray and Light Scattering, ed. P. Lindner and Th. Zemb (Elsevier Science Publ., 135, 1991) (livre)

- Une centaine de rapports d'articles soumis aux journaux internationaux :

J. Phys. Chem., J. Chem. Phys., J. Physique, J. Phys.: Condens. Matter, Europhys. Lett., Langmuir, J. Coll. Interf. Sci., Phys. Rev. Lett., Eur. Phys. Lett., Eur. Phys. J. E, ...