

Benoit Loppinet Publication list

from 2005

57- Giuliani, A., McKenzie, R., and **Loppinet, B.**,

Near wall velocimetry on a rheometer

Journal of Rheology **63**, 93 (2019); <https://doi.org/10.1122/1.5047020>

56- Bogris, A., Wang, J., Anyfantakis, M., **Loppinet, B.**, Craig, S. L., Butt, H.-J., and Fytas, G.,

Solvent-Dependent Light-Induced Structures in Gem-Dichlorocyclopropanated Polybutadiene Solutions

J. Phys. Chem. B, 2018, 122 (27), pp 6995–7001, DOI: 10.1021/acs.jpcc.8b02463

55- Anyfantakis, M., Pamvouxoglou, A., Mantzaridis, C., Pispas, S., Butt, H.-J., Fytas, G., and **Loppinet, B.**,

Kinetics of Light-Induced Concentration Patterns in Transparent Polymer Solutions

J. Phys. Chem. B, 2017, 121 (29), pp 7180–7189; DOI: 10.1021/acs.jpcc.7b02239

54- Chatsisvili, N., Philips, A. P., **Loppinet, B.**, Tromp, R. H.,

Colloidal zein particles at water-water interfaces

Food Hydrocolloids Volume 65, April 2017, Pages 17-23, <https://doi.org/10.1016/j.foodhyd.2016.10.036>

53- Truzzolillo, D., Sharaf, H., Jonas, U., **Loppinet, B.**, and Vlassopoulos, D.,

Tuning the Structure and Rheology of Polystyrene Particles at the Air–Water Interface by Varying the pH

Langmuir, 2016, 32 (27), pp 6956–6966, DOI: 10.1021/acs.langmuir.6b01969

52- Dutertre, F., Bang, K.-T., **Loppinet, B.**, Choi, I., Choi, T.-L., and Fytas, G.,

Structure and Dynamics of Dendronized Polymer Solutions: Gaussian Coil or Macromolecular Rod?

Macromolecules, 2016, 49 (7), pp 2731–2740, DOI: 10.1021/acs.macromol.6b00420

51- Theodoratou, A., Jonas, U., **Loppinet, B.**, Geue, T., Stangenberg, R., Keller, R., Dan Li, Berger, R., Vermant, J., and Vlassopoulos, D.,

Semifluorinated Alkanes at the Air–Water Interface: Tailoring Structure and Rheology at the Molecular Scale

Langmuir, 2016, 32 (13), pp 3139–3151, DOI: 10.1021/acs.langmuir.5b04744

50- Sofikitis, D., Spiliotis, A. K., Stamataki, K., Katsoprinakis, G. E., Bougas, L., Samartzis, P. C., **Loppinet, B.**, Rakitzis, T. P., Surligas, M., and Papadakis, S.

Microsecond-resolved SDR-based cavity ring down ellipsometry

Applied Optics Vol. 54, Issue 18, pp. 5861-5865 (2015), <https://doi.org/10.1364/AO.54.005861>

49- Theodoratou, A., Jonas, U., **Loppinet, B.**, Geue, T., Stangenberg, R., Dan Li, Berger, R. and Vlassopoulos, D.,
Photoswitching the mechanical properties in Langmuir layers of semifluorinated alkyl-azobenzenes at the air–water
interface

Phys. Chem. Chem. Phys., 2015, **17**, 28844-28852, DOI: [10.1039/C5CP04242A](https://doi.org/10.1039/C5CP04242A)

48- Bougas, L., Sofikitis, D., Katsoprinakis, G. E., Spiliotis, A. K., Tzallas, P., **Loppinet, B.** and Rakitzis, T. P.,
Chiral cavity ring down polarimetry: Chirality and magnetometry measurements using signal reversals

J. Chem. Phys. 143, 104202 (2015); <https://doi.org/10.1063/1.4930109>

47- Gianneli, M., Anac, I., Rostkamp, R., Menges, B., **Loppinet, B.**, Jonas, U., Knoll, W., Fytas, G.

Dynamic Response of Anchored Poly(N-isopropylacrylamide-co-methacrylic acid-co-benzophenone methacrylate)
Terpolymer Hydrogel Layers to Physicochemical Stimuli

Macromolecular Chemistry and Physics, Volume 216, Issue 3, February 2, 2015, Pages 277-286,
<https://doi.org/10.1002/macp.201400361>

46- Sofikitis, D., Bougas, L., Katsoprinakis, G. E., Spiliotis, A. K., **Loppinet, B.** & Rakitzis, T. P.

Evanescent-wave and ambient chiral sensing by signal-reversing cavity ringdown polarimetry

Nature **volume 514**, pages 76–79 (02 October 2014), <https://doi.org/10.1038/nature13680>

45- Stehle, J.-L., Samartzis, P. C., Stamataki, K., Piel, J.-P., Katsoprinakis, G. E., Papadakis, V., Schimowski, X.,
Rakitzis, T. P., **Loppinet, B.**

Multi-pass spectroscopic ellipsometry

Thin Solid Films Volume 555, 31 March 2014, Pages 143-147, <https://doi.org/10.1016/j.tsf.2013.05.148>

44- Sofikitis, D., Stamataki, K., Everest, M.A., Papadakis, V., Stehle, J.-L., **Loppinet, B.**, Rakitzis, T.P.

Sensitivity enhancement for evanescent-wave sensing using cavity-ring-down ellipsometry

(2013) *Optics Letters*, 38 (8), pp. 1224-1226.

43- Stamataki, K., Papadakis, V., Everest, M.A., Tzortzakis, S., **Loppinet, B.**, Rakitzis, T.P.

Monitoring adsorption and sedimentation using evanescent-wave cavity ringdown ellipsometry

(2013) *Applied Optics*, 52 (5), pp. 1086-1093. Cited 1 time.

42- Berta, M., **Loppinet, B.**, Vlassopoulos, D., Askounis, A., Koutsos, V., Pastoriza-Santos, I., Liz-Marzan, L.M.

Tailoring the properties of grafted silver nanoprism composites

(2012) *Polymer (United Kingdom)*, 53 (25), pp. 5771-5778. Cited 1 time.

- 41- Anyfantakis, M., **Loppinet, B.**, Fytas, G., Mantzaridis, C., Pispas, S., Butt, H.-J.
Self-induced transparency in diblock copolymer dispersions
(2012) *Optics Letters*, 37 (13), pp. 2487-2489.
- 40- **Loppinet, B.**, Dhont, J.K.G., Lang, P.
Near-field laser Doppler velocimetry measures near-wall velocities
(2012) *European Physical Journal E*, 35 (7), art. no. 62, . Cited 1 time.
- 39- Anyfantakis, M., Königer, A., Pispas, S., Köhler, W., Butt, H.-J., **Loppinet, B.**, Fytas, G.
Versatile light actuated matter manipulation in transparent non-dilute polymer solutions
(2012) *Soft Matter*, 8 (8), pp. 2382-2384. Cited 2 times.
- 38- Antoniou, E., Voudouris, P., Larsen, A., **Loppinet, B.**, Vlassopoulos, D., Pastoriza-Santos, I., Liz-Marzán, L.M.
Static and dynamic plasmon-enhanced light scattering from dispersions of polymer-grafted silver nanoprisms in the bulk and near solid surfaces
(2012) *Journal of Physical Chemistry C*, 116 (6), pp. 3888-3896. Cited 5 times.
- 37- Everest, M.A., Papadakis, V.M., Stamataki, K., Tzortzakis, S., **Loppinet, B.**, Rakitzis, T.P.
Evanescent-wave cavity ring-down ellipsometry
(2011) *Journal of Physical Chemistry Letters*, 2 (11), pp. 1324-1327. Cited 3 times.
- 36- Aerts, A., Follens, L.R.A., Biermans, E., Bals, S., Van Tendeloo, G., **Loppinet, B.**, Kirschhock, C.E.A., Martens, J.A.
Modelling of synchrotron SAXS patterns of silicalite-1 zeolite during crystallization
(2011) *Physical Chemistry Chemical Physics*, 13 (10), pp. 4318-4325. Cited 7 times.
- 35- Anyfantakis, M., Fytas, G., Mantzaridis, C., Pispas, S., Butt, H.-J., **Loppinet, B.**
Experimental investigation of long time irradiation in polydiene solutions: Reversibility and instabilities
(2010) *Journal of Optics*, 12 (12), art. no. 124013, . Cited 3 times.
- 34- Anyfantakis, M., **Loppinet, B.**, Fytas, G., Mantzaridis, C., Pispas, S., Butt, H.-J.
Polydiene solutions: A surprising versatile non linear optics material
(2010) *AIP Conference Proceedings*, 1288, pp. 123-126.
- 33- Caremans, T.P., **Loppinet, B.**, Follens, L.R.A., Van Erp, T.S., Vermant, J., Goderis, B., Kirschhock, C.E.A., Martens, J.A., Aerts, A.

Investigation of nanoparticles occurring in the colloidal silicalite-1 zeolite crystallization process using dissolution experiments

(2010) *Chemistry of Materials*, 22 (12), pp. 3619-3629. Cited 10 times.

32- Karaiskou, A., Papadakis, V., **Loppinet, B.**, Rakitzis, T.P.

Cavity ring-down ellipsometry

(2009) *Journal of Chemical Physics*, 131 (12), art. no. 121101, . Cited 4 times.

31- Anyfantakis, M., **Loppinet, B.**, Fytas, G., Pispas, S.

Optical spatial solitons and modulation instabilities in transparent entangled polymer solutions

(2008) *Optics Letters*, 33 (23), pp. 2839-2841. Cited 13 times.

30- Follens, L.R.A., Aerts, A., Haouas, M., Caremans, T.P., **Loppinet, B.**, Goderis, B., Vermant, J., Taulelle, F., Martens, J.A., Kirschhock, C.E.A.

Characterization of nanoparticles in diluted clear solutions for Silicalite-1 zeolite synthesis using liquid ²⁹Si NMR, SAXS and DLS

(2008) *Physical Chemistry Chemical Physics*, 10 (36), pp. 5574-5583. Cited 24 times.

29- Gianneli, M., Roskamp, R.F., Jonas, U., **Loppinet, B.**, Fytas, G., Knoll, W.

Dynamics of swollen gel layers anchored to solid surfaces

(2008) *Soft Matter*, 4 (7), pp. 1443-1447. Cited 23 times.

28- Voudouris, P., **Loppinet, B.**, Petekidis, G.

Particle dynamics within a wetting layer in a colloid-polymer mixture

(2008) *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, 77 (5), art. no. 051402, . Cited 3 times.

27- Michailidou, V.N., **Loppinet, B.**, Vo, C.D., Rhe, J., Tauer, K., Fytas, G.

Observation of slow down of polystyrene nanogels diffusivities in contact with swollen polystyrene brushes

(2008) *European Physical Journal E*, 26 (1-2), pp. 35-41. Cited 3 times.

26- Aerts, A., Follens, L.R.A., Haouas, M., Caremans, T.P., Delsuc, M.-A., **Loppinet, B.**, Vermant, J., Goderis, B., Taulelle, F., Martens, J.A., Kirschhock, C.E.A.

Combined NMR, SAXS, and DLS study of concentrated clear solutions used in silicalite-1 zeolite synthesis

(2007) *Chemistry of Materials*, 19 (14), pp. 3448-3454. Cited 46 times.

25- Filippidi, E., Michailidou, V., **Loppinet, B.**, Rhe, J., Fytas, G.

Brownian diffusion close to a polymer brush

(2007) *Langmuir*, 23 (9), pp. 5139-5142. Cited 26 times.

24- Michailidou, V.N., **Loppinet, B.**, Vo, D.C., Prucker, O., Rhe, J., Fytas, G.

Dynamics of end-grafted polystyrene brushes in theta solvents

(2006) *Journal of Polymer Science, Part B: Polymer Physics*, 44 (24), pp. 3590-3597. Cited 6 times.

23- Pispas, S., Vlassopoulos, D., Fytas, G., **Loppinet, B.**, Hadjichristidis, N.

Modifying the rheological behavior of associative triblock copolymers in aqueous media through surfactant additives

(2006) *Polymer*, 47 (20), pp. 7302-7311. Cited 1 time.

22- Somma, E., **Loppinet, B.**, Chi, C., Fytas, G., Wegner, G.

Static and dynamic solution properties of monodisperse oligofluorenes

(2006) *Physical Chemistry Chemical Physics*, 8 (23), pp. 2773-2778. Cited 17 times.

21- Somma, E., Chi, C., **Loppinet, B.**, Grinshtein, J., Graf, R., Fytas, G., Spiess, H.W., Wegner, G.

Orientation dynamics in isotropic phases of model oligofluorenes: Glass or liquid crystal

(2006) *Journal of Chemical Physics*, 124 (20), art. no. 204910, . Cited 4 times.

20- Pantazi, D., Drougas, E., **Loppinet, B.**, Tellis, C., Kosmas, A.M., Lekka, M.E.

Hydrolysis by phospholipase D of phospholipids in solution state or adsorbed on a silica matrix

(2006) *Chemistry and Physics of Lipids*, 139 (1), pp. 20-31. Cited 2 times.

19- Michailidou, V.N., **Loppinet, B.**, Prucker, O., Rhe, J., Fytas, G.

Cooperative diffusion of end-grafted polymer brushes in good solvents

(2005) *Macromolecules*, 38 (21), pp. 8960-8962. Cited 13 times.

18- **Loppinet, B.**, Somma, E., Vainos, N., Fytas, G.

Reversible holographic grating formation in polymer solutions

(2005) *Journal of the American Chemical Society*, 127 (27), pp. 9678-9679. Cited 10 times.

17- **Loppinet, B.**, Fytas, G., Vlassopoulos, D., Likos, C.N., Meier, G., Guo, J.L.

Dynamics of dense suspensions of star-like micelles with responsive fixed cores

(2005) *Macromolecular Chemistry and Physics*, 206 (1), pp. 163-172. Cited 16 times.

Before 2005

16- Somma, E., **Loppinet, B.**, Fytas, G., Setayesh, S., Jacob, J., Grimsdale, A.C., Müllen, K.

Collective orientation dynamics in semi-rigid polymers

(2004) Colloid and Polymer Science, 282 (8), pp. 867-873. Cited 12 times.

15- Yakubov, G.E., **Loppinet, B.**, Zhang, H., Rühle, J., Sigel, R., Fytas, G.

Collective Dynamics of an End-Grafted Polymer Brush in Solvents of Varying Quality

(2004) Physical Review Letters, 92 (11), pp. 115501-1. Cited 29 times.

14- **Loppinet, B.**, Fytas, G., Petekidis, G., Sato, T., Wegner, G.

On the origin of the heterogeneous orientation dynamics of semiflexible polymers in solutions

(2002) European Physical Journal E, 8 (5), pp. 461-464. Cited 4 times.

13- Stiakakis, E., Vlassopoulos, D., **Loppinet, B.**, Roovers, J., Meier, G.

Kinetic arrest of crowded soft spheres in solvents of varying quality

(2002) Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, 66 (5), art. no. 051804, pp. 051804/1-051804/9. Cited 40 times.

12- **Loppinet, B.**, Stiakakis, E., Vlassopoulos, D., Fytas, G., Roovers, J.

Reversible thermal gelation in star polymers: An alternative route to jamming of soft matter

(2001) Macromolecules, 34 (23), pp. 8216-8223. Cited 42 times.

11- **Loppinet, B.**, Sigel, R., Larsen, A., Fytas, G., Vlassopoulos, D., Liu, G.

Structure and dynamics in dense suspensions of micellar nanocolloids

(2000) Langmuir, 16 (16), pp. 6480-6484. Cited 17 times.

10- Vlassopoulos, D., Fytas, G., **Loppinet, B.**, Isel, F., Lutz, P., Benoit, H.

Polymacromonomers: structure and dynamics in nondilute solutions, melts, and mixtures

(2000) Macromolecules, 33 (16), pp. 5960-5969. Cited 37 times.

9- Kapantaidakis, G.C., Kaldis, S.P., Sakellaropoulos, G.P., Chira, E., **Loppinet, B.**, Floudas, G.

Interrelation between phase state and gas permeation in polysulfone/polyimide blend membranes

(1999) Journal of Polymer Science, Part B: Polymer Physics, 37 (19), pp. 2788-2798. Cited 17 times.

8- Vlassopoulos, D., Chira, I., **Loppinet, B.**, McGrail, P.T.

Gelation kinetics in elastomer/thermoset polymer blends

(1998) Rheologica Acta, 37 (6), pp. 614-623. Cited 16 times.

7- **Loppinet, B.**, Petekidis, G., Fytas, G., Rülkens, R., Wegner, G.

Dynamics of adsorbed hairy-rod polymer solutions

(1998) *Langmuir*, 14 (18), pp. 4958-4960. Cited 16 times.

6- **Loppinet, B.**, Gebel, G.

Rodlike colloidal structure of short pendant chain perfluorinated ionomer solutions

(1998) *Langmuir*, 14 (8), pp. 1977-1983. Cited 44 times.

5- Gebel, G., **Loppinet, B.**, Hara, H., Hirasawa, E.

Small-angle neutron scattering study of polyethylene-co-methacrylate ionomer aqueous solutions

(1997) *Journal of Physical Chemistry B*, 101 (20), pp. 3980-3987. Cited 14 times.

4- **Loppinet, B.**, Gebel, G., Williams, C.E.

Small-angle scattering study of perfluorosulfonated ionomer solutions

(1997) *Journal of Physical Chemistry B*, 101 (10), pp. 1884-1892. Cited 87 times.

3- Gebel, G., **Loppinet, B.**

Colloidal structure of ionomer solutions in polar solvents

(1996) *Journal of Molecular Structure*, 383 (1-3), pp. 43-49. Cited 17 times.

2- Aldebert, P., Gebel, G., **Loppinet, B.**, Nakamura, N.

Polyelectrolyte effect in perfluorosulfonated ionomer solutions

(1995) *Polymer*, 36 (2), pp. 431-434. Cited 36 times.

1- Gebel, G., Ristori, S., **Loppinet, B.**, Martini, G.

Small angle scattering study of perfluoropolyethers/water systems

(1993) *Journal of Physical Chemistry*, 97 (33), pp. 8664-8668. Cited 14 times.

Proceedings

Papadakis, V., Everest, M.A., Stamataki, K., Tzortzakis, S., **Loppinet, B.**, Rakitzis, T.P.

Development of cavity ring-down ellipsometry with spectral and submicrosecond time resolution

(2011) *Proceedings of SPIE - The International Society for Optical Engineering*, 8105, art. no. 81050L, .

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-80053480256&partnerID=40&md5=68c2db9a46abadb231d605ab14da264c)

[80053480256&partnerID=40&md5=68c2db9a46abadb231d605ab14da264c](http://www.scopus.com/inward/record.url?eid=2-s2.0-80053480256&partnerID=40&md5=68c2db9a46abadb231d605ab14da264c)

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

Book chapter

Loppinet B., Monteux C. (2016) Dynamics of Surfactants and Polymers at Liquid Interfaces.

In: Lang P., Liu Y. (eds) Soft Matter at Aqueous Interfaces. Lecture Notes in Physics, vol 917. Springer, Cham, https://doi.org/10.1007/978-3-319-24502-7_5

Loppinet B. (2016) Characterization of Soft Matter at Interfaces by Optical Means.

In: Lang P., Liu Y. (eds) Soft Matter at Aqueous Interfaces. Lecture Notes in Physics, vol 917. Springer, Cham, https://doi.org/10.1007/978-3-319-24502-7_13

Loppinet, B., Fytas, G.

Dynamics and Thermomechanics of Polymer Films

(2011) Functional Polymer Films, 2, pp. 591-627.