

# Stéphane BRUZAUD

## Articles à comité de lecture

- ACL1. "Anionic ring-opening polymerization of cyclodisilazanes: 1- General aspects"**  
S. Bruzaud, A. Soum, *Macromol. Chem. Phys.* **1995**, 197, 2379-2391
- ACL2. "Ring-opening polymerization of organosilicon cyclic monomers"**  
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- ACL3. "Polysilazanes through ring-opening polymerization"**  
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- ACL4. "Anionic ring-opening polymerization of cyclodisilazanes: 2- Influence of additives on the kinetics of polymerization"**  
S. Bruzaud, A.-F. Mingotaud, A. Soum, *Macromol. Chem. Phys.* **1997**, 198, 1873-1884
- ACL5. "Anionic ring-opening polymerization of cyclodisilazanes: Evaluation of the reactivity of active centers"**  
S. Bruzaud, A.-F. Mingotaud, A. Soum, *Ionic Polymerizations* **1997**, 13, 261-267
- ACL6. " $\omega$ -chloro- $\alpha$ -olefins as comonomers and termonomers for the synthesis of functional polyolefins"**  
S. Bruzaud, H. Cramail, L. Duvignac, A. Deffieux, *Macromol. Chem. Phys.* **1997**, 198, 291-303
- ACL7. "Multinucleus NMR characterization of new silylamines and their corresponding lithium silylamides"**  
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- ACL8. "Synthesis and characterization of new functional polymers by polymer-analog reactions on EVOH copolymer"**  
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- ACL9. "Polysiloxane-g-TiNbO<sub>5</sub> nanocomposites: synthesis via *in situ* intercalative polymerization and preliminary characterization"**  
S. Bruzaud, G. Levesque, *Chem. Mater.* **2002**, 14, 2421-2426
- ACL10. "Preparation of polysiloxane-g-TiNbO<sub>5</sub> nanocomposites: different routes"**  
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- ACL11. "Influence of clay nanofiller incorporation on electrical and rheological properties of conductive polymer composite"**  
J.F. Feller, S. Bruzaud, Y. Grohens, *Mater. Lett.* **2004**, 58, 739-745
- ACL12. "Elaboration of poly( $\epsilon$ -caprolactone)-g-TiNbO<sub>5</sub> nanocomposites via *in situ* metal complex initiated intercalative polymerization"**  
S. Bruzaud, J.F. Carpentier, Y. Grohens, *Macromol. Mater. Eng.* **2004**, 289, 531-538
- ACL13. "Dynamics and crystallization in polydimethylsiloxane nanocomposites"**  
A. Beigbeder, S. Bruzaud, J. Spevácek, J. Brus, Y. Grohens, *Macromol. Symp.* **2005**, 222, 225-232
- ACL14. "Syndiotactic polystyrene/organoclay nanocomposites: synthesis via *in situ* coordination-insertion polymerization and preliminary characterization"**  
S. Bruzaud, Y. Grohens, S. Ilinca, J.F. Carpentier, *Macromol. Mater. Eng.* **2005**, 290, 1106-1114
- ACL15. "Rheological characterization of polydimethylsiloxane-TiNbO<sub>5</sub> nanocomposites prepared by different routes"**  
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- ACL16. "Elaboration and characterization of PDMS/HTiNbO<sub>5</sub> nanocomposite membranes"**  
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- ACL17. "Thermal degradation and (nano)mechanical behaviour of layered silicate reinforced poly(3-hydroxybutyrate-co-3-hydroxyvalerate) nanocomposites"**  
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- ACL18. "Effect of gamma irradiation on the structure and properties of polypropylene/clay nanocomposites"**  
N. Touati, M. Kaci, H. Ahouari, S. Bruzaud, Y. Grohens, *Macromol. Mater. Eng.* **2007**, 292, 1271-1279

- ACL19. "The *in situ* polymerization for the elaboration of nanocomposites materials with controlled properties"**  
 S. Bruzaud, Y. Grohens, *Int. J. Nanotechnol.* **2008**, 5, 660-668
- ACL20. "Photo-oxydation of polystyrene/clay nanocomposites under accelerated UV exposure: Effect on the structure and molecular weight"**  
 C. Remili, M. Kaci, S. Kachbi, S. Bruzaud, Y. Grohens, *J. Appl. Polym. Sci.* **2009**, 112, 2868-2875
- ACL21. "Carbon nanotubes/poly( $\epsilon$ -caprolactone) composite vapour sensors"**  
 M. Castro, J. Lu, S. Bruzaud, B. Kumar, J.F. Feller, *Carbon* **2009**, 47, 1930-1942
- ACL22. "Relationship between structure and rheological, mechanical and thermal properties of polylactide/Cloisite 30B nanocomposites"**  
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- ACL23. "Effect of photo-oxydation of polystyrene/Cloisite 15A nanocomposites under accelerated UV exposure"**  
 M. Kaci, C. Rémili, S. Bruzaud, Y. Grohens, *Acad. J. Manufact. Eng.* **2010**, 8, 61-66
- ACL24. "Structure and thermal behavior of Polyhedral Oligomeric Silsesquioxane modified clay"**  
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- ACL25. "Effect of natural weather on the structure and properties of polylactide/Cloisite 30B nanocomposites"**  
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- ACL26. "Characterization of bionanocomposites based on medium-chain-length polyhydroxyalkanoates synthesized by *Pseudomonas oleovorans*"**  
 S. Chardron, S. Bruzaud, B. Lignot, A. Elain, O. Sire, *Polym. Test.* **2010**, 29, 966-971
- ACL27. "The effects of reprocessing cycles on the structure and properties of isotactic polypropylene/Cloisite 15A nanocomposites"**  
 N. Touati, M. Kaci, S. Bruzaud, Y. Grohens, *Polym. Degrad. Stab.* **2011**, 96, 1064-1073
- ACL28. "The effects of reprocessing cycles on the structure and properties of polystyrene/Cloisite 15A nanocomposites"**  
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- ACL29. "Morphology and functional properties of commercial polyhydroxyalkanoates: a comprehensive and comparative study"**  
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- ACL30. "Recyclability of polystyrene/clay nanocomposites"**  
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- ACL31. "Influence of loading rates on morphology and mechanical properties of polylactide/clay nanocomposites"**  
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- ACL32. "The effects of gamma irradiation on the morphology and properties of polylactide/Cloisite 30B nanocomposites"**  
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- ACL33. "A study of mechanical, thermal and flammability properties of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/polylactide blends"**  
 I. Zembouai, M. Kaci, S. Bruzaud, A. Benhamida, Y.M. Corre, Y. Grohens, *Polym. Test.* **2013**, 32, 842-851
- ACL34. "Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and poly(propylene carbonate) blends: an efficient method to finely adjust properties of functional materials"**  
 Y.M. Corre, S. Bruzaud, Y. Grohens, *Macromol. Mater. Eng.* **2013**, 298, 1176-1183
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- ACL36. "Synergistic effect of compatibilizer and Cloisite 30B on the functional properties of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/polylactide blends"**  
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- ACL37. "Accelerated ageing of polylactide in aqueous environments: comparative study between distilled water and seawater"**  
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- ACL38. "Seawater accelerated ageing of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)"**  
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- ACL39. "Mechanical recycling of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/polylactide blends"**  
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- ACL40. "Accelerated ageing and lifetime prediction of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) immersed in distilled water"**  
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- ACL41. "Rapid and qualitative fluorescence-based method for the assessment of PHA production in marine bacteria during batch culture"**  
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- ACL42. "Natural degradation and biodegradation of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) in liquid and solid marine environments"**  
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- ACL44. "Valorization of local agro-industrial processing waters as growth media for polyhydroxyalkanoates production"**  
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- ACL45. "Gamma irradiation effects on morphology and properties of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/polylactide blends in the presence of compatibilizer and Cloisite 30B"**  
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- ACL46. "Electron beam radiation effects on properties and eco-toxicity of PHBV/PLA blends in presence of organo-modified montmorillonite"**  
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- ACL47. "Microplastics elutriation from sandy sediments: a granulometric approach"**  
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- ACL48. "Effects of PHBV-g-MA compatibilizer on morphology and properties of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/olive husk flour composites"**  
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- ACL49. "Synergistic effect of compatibilizer and sepiolite on the morphology of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/poly(butylene succinate) blends"**  
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- ACL50. "Changes in the floating plastic pollution of the Mediterranean Sea in relation to the distance to land"**  
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- ACL52. "Valorization of olive husk flour as a filler for biocomposites based on poly(3-hydroxybutyrate-co-3-hydroxyvalerate): effects of filler silane treatment"**  
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- ACL53. "Microplastics elutriation system. Part A: numerical modeling"**  
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- ACL54. "Recycling assessment of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/poly(butylene succinate) blends: combined influence of sepiolite and compatibilizer"**  
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- ACL58. "Colonization of non-biodegradable and biodegradable plastics by marine microorganisms"**  
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- ACL62. "A machine learning algorithm for high throughput identification of FTIR spectra: application on microplastics collected in the Mediterranean Sea"**  
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- ACL63. "Effect of montmorillonite, sepiolite and halloysite clays on morphology and properties of polycaprolactone bionanocomposites"**  
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- ACL68. "Microplastics in edible mussels from a southern Mediterranean lagoon: preliminary results on seawater-mussel transfer and implications for environmental protection and seafood safety"**  
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- ACL69. "Elaboration and characterization of polyurethane foams based on renewably sourced polyols"**  
Z. Kahleras, R. Irinislimane, S. Bruzaud, N. Belhaneche-Bensemra, *J. Polym. Environ.* **2020**, 28, 3003-3018
- ACL70. "Characterization of microplastics in the surface waters of an urban lagoon (Bizerte lagoon, Southern Mediterranean Sea): composition, density, distribution and influence of environmental factors"**  
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- ACL71. "Pre-detection of microplastics using active thermography"**  
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- ACL72. "Relative influence of plastic debris size and shape, chemical composition and phytoplankton-bacteria interactions in driving seawater plastisphere abundance, diversity and activity"**  
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- ACL73. "Filler content effect on water uptake and thermal stability of poly(3-hydroxybutyrate-3-hydroxyhexanoate)/microcrystalline cellulose biocomposites"**  
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- ACL74. "Microbial diversity and activity during the biodegradation in seawater of various substitutes to conventional plastic cotton swabs sticks"**  
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- ACL75. "Bacterial abundance, diversity and activity during long term colonization of non-biodegradable and biodegradable plastics in seawater"**  
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- ACL78. "Characterization of new bio-based and biodegradable blends of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) / poly(butylene-co-succinate-co-adipate)"**  
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- ACL79. "A degradation study of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and olive husk flour biocomposites under marine environment"**  
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- ACL81. "Biodegradability under marine conditions of bio-based and petroleum-based polymers as substitutes of conventional microparticles"**  
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- ACL82. "Effect of Agave leaves fibers (ALF) content on thermal, mechanical and surface properties of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) (PHBHHx) biocomposites"**  
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- ACL83. "Effect of ZnO nanoparticles on tensile and viscoelastic properties of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) bionanocomposites"**  
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- ACL84. "Seasonal patterns of microplastics in surface sediments of a Mediterranean lagoon heavily impacted by human activities (Bizerte lagoon, Northern Tunisia)"**  
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- ACL85. "Microplastic fouling: a gap in knowledge and a research imperative to improve their study by infrared characterization spectroscopy"**  
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