



Section du Comité National n°11

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Publication list

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CEntre de **RE**cherches sur les **MA**cro-molécules **V**égétales
UPR 5301 – Grenoble

1. ARTICLES IN PEER-REVIEWED JOURNALS

1989

- ACL-1 *Climb of dissociated dislocations in silicon.*
J. Thibault-Desseaux, H.O.K. Kirchner, J.-L. Putaux
Phil. Mag. A 60(3) (1989), 385-400 - DOI: [10.1080/01418618908213868](https://doi.org/10.1080/01418618908213868)
- ACL-2 *Dislocations stopped by the (122) $\Sigma=9$ GB in Si. A HREM study of thermal activation.*
J. Thibault-Desseaux, J.-L. Putaux, A. Bourret, H.O.K. Kirchner
J. Phys. 50 (1989), 2525-2540 - DOI: [10.1051/jphys:0198900500180252500](https://doi.org/10.1051/jphys:0198900500180252500)

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- ACL-3 *HREM characterization of structural changes in a deformed $\Sigma=9$ (112) grain boundary in silicon.*
J.-L. Putaux, J. Thibault-Desseaux
J. Phys. 51 (1990), 323-328 - DOI: [10.1051/jphyscol:1990151](https://doi.org/10.1051/jphyscol:1990151)
- ACL-4 *Plasticity of a silicon bicrystal : a HREM study.*
J. Thibault, J.-L. Putaux, A. Jacques, A. George, M. Elkajbaji
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- ACL-5 *Interaction between dislocations and $\Sigma=51$ and $\Sigma=19$ grain boundaries in germanium: study by in-situ TEM and HREM.*
H.-M. Michaud, X. Baillin, J. Pélissier, J.-L. Putaux, J. Thibault
Microsc. Microanal. Microstruct. 4 (1993), 221-237 - DOI: [10.1051/mmm:0199300402-3022100](https://doi.org/10.1051/mmm:0199300402-3022100)
- ACL-6 *Structure and characterization of the dislocations in tilt grain boundaries between $\Sigma=1$ and $\Sigma=3$: a HREM study.*
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Mater. Sci. Eng. A 164 (1993), 93-100 - DOI: [10.1016/0921-5093\(93\)90646-V](https://doi.org/10.1016/0921-5093(93)90646-V)

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- ACL-7 *Structural transformation of the (233)[011] $\Sigma=11$ tilt grain boundary in silicon.*
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- ACL-8 *HREM study of self-accommodated ε -martensite in a Fe-Mn-Si-Cr-Ni shape memory alloy.*
J.-L. Putaux, J.-P. Chevalier
Acta materialia. 44(4) (1996), 1701-1716 - DOI: [10.1016/1359-6454\(95\)00268-5](https://doi.org/10.1016/1359-6454(95)00268-5)
- ACL-9 *Single crystals of inulin.*
I. André, J.-L. Putaux, H. Chanzy, F.R. Taravel, J.W. Timmermans, D. De Wit
Int. J. Biol. Macromol. 18 (1996), 195-204 - DOI: [10.1016/0141-8130\(95\)01075-0](https://doi.org/10.1016/0141-8130(95)01075-0)
- ACL-10 *Molecular and crystal structures of inulin from electron diffraction data.*
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- ACL-11 *Structural aspects of the swelling of β -chitin in HCl and its conversion into α -chitin.*
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Macromolecules 30 (1997), 3867-3873 - DOI: [10.1021/ma961787+](https://doi.org/10.1021/ma961787+)
- ACL-12 *The chitinous nature of filaments ejected by Phaeocystis (Prymnesiophyceae).*
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- ACL-13 *Nanodispersion of polybutadiene in polystyrene through controlled 'grafting from' free radical polymerization using a diphenylmethyl type radical.*
H. Maldonado-Textle, M.E. De León-Sáenz, J.-L. Putaux, L.F. Ramos-De Valle, R. Guerrero-Santos
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- ACL-16 *Network formation in dilute amylose and amylopectin studied by TEM.*
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- ACL-17 *Structural data on the intra-crystalline swelling of β -chitin.*
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Int. J. Biol. Macromol. 28 (2000), 81-88 - DOI: [10.1016/S0141-8130\(00\)00147-1](https://doi.org/10.1016/S0141-8130(00)00147-1)
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- ACL-18 *Biosynthesis of (1 \rightarrow 3)- β -D-glucan (callose) by detergent extracts of a microsomal fraction from Arabidopsis thaliana.*
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- ACL-19 *In vitro versus in vivo cellulose microfibrils from plant primary wall synthases: structural differences.*
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- ACL-20 *Influence of chemical structure of amphiphilic β -cyclodextrins on their ability to form stable nanoparticles.*
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- ACL-21 *Effect of cyclization of polystyrene/polyisoprene block copolymers on their micellar morphology.*
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Macromol. Rapid Commun. 23 (2002), 978-982 - DOI: [10.1002/1521-3927\(200211\)23:16<978::AID-MARC978>3.0.CO;2-K](https://doi.org/10.1002/1521-3927(200211)23:16<978::AID-MARC978>3.0.CO;2-K)
- ACL-22 *Processing and characterization of carbon nanotubes/poly(styrene-co-butyl acrylate) nanocomposites.*
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- 2003**
- ACL-23 *Measurement of the displacement field of dislocations to 0.03 Å by electron microscopy.*
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- ACL-24 *Synthesis and characterization of water-soluble amphipatic polystyrene-based dendrigrafts.*
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- ACL-25 *Platelet nanocrystals resulting from the acid hydrolysis of waxy maize starch granules.*
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- ACL-26 *Metal hydrous oxide colloids by inorganic polycondensation in suspension.*
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- ACL-29 *Flavan-3-ol aggregation in model ethanolic solutions: incidence of polyphenol structure, concentration, ethanol content and ionic strength.*
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- ACL-30 *From "sunflower-like" assemblies toward giant wormlike micelles.*
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- ACL-32 *Anisotropy of structure and transport properties in sulfonated polyimide membranes.*
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- ACL-33 *Origin of the limited α -amylolysis of debranched maltodextrins crystallized in the A form : a TEM study on model substrates.*
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- ACL-35 *Aqueous dispersions of silane-functionalized laponite clay platelets. A first step towards the elaboration of water-based polymer/clay nanocomposites*
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- ACL-36 *Filler–filler interactions and viscoelastic behavior of polymer nanocomposites.*
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- ACL-37 *Preparation of aqueous anionic poly-(urethane-urea) dispersions: influence of the nature and proportion of the urethane groups on the dispersion and polymer properties.*
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- ACL-55 *Orientation of native cellulose in an electric field.*
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- ACL-64 *Characterization of arabinoxylan-DHP (dehydrogenation polymers = synthetic lignin polymers) nanoparticles.*
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