

Arnaud POITOU

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Current position

Professor of mechanical engineering, Ecole Centrale de Nantes

Education

Engineering studies at Ecole Polytechnique (Palaiseau-France) 1984, PhD CEMEF-Ecole Nationale Supérieure des Mines de Paris 1987

Research Interests

Materials processing modeling (Mixing, Injection Molding, Paste Extrusion, Friction Stir Welding, Machining ...)

Career

Professor of Mechanical Engineering at Ecole Centrale de Nantes (since 2003), Associate Professor then Professor of Mechanical Engineering at LMT - Ecole Normale Supérieure de Cachan (from 1989 to 2003), Research engineer at Rhone Poulenc (84-87) and Renault (87-88).

Professional activities

Editorial boards

Mécanique et Industrie (since 2000)

University services

Head of graduate school at Ecole Centrale de Nantes,

Summary of journal publications

Journal	Impact factor	Number of papers
Journal of Non Newtonian Fluid Mechanics	1,412	1
Computer Methods in Applied Mechanics and Engineering	1,252	3
Journal of Rheology	1,778	1
Macromolecule	3,621	2
Other indexed journals		21
Other papers in refereed journals		9

Selected publications (max. 5)

"A squeezing experiment to evidence particles and binder migration in concentrated suspension" A. Poitou, G. Racineux, Journal of rheology, 45 (3), 2001 (~ 10 times cited)

"A molecular model for flow induced crystallization of polymers" A. Poitou, A. Ammar, Macromol. Symp. 185, p 243-259, 2002 (~10 times cited)

"State-of-the-Art on numerical simulation of fiber-reinforced Thermoplastic Forming Processes" J. Azaiez, K. Chiba, F. Chinesta, A. Poitou, Arch. Comput. Meth. Engng., 9, (2), p 141-198 2002

“Numerical simulation of the steady recirculating flows of fibers suspensions” A. Poitou, F. Chinesta, R. Torres, *Journal of Non Newtonian Fluid Mechanics*, 90 (1), 65-80 2000 (~10 times cited)

« Shear modification of long-chain branched polymers : A theoretical approach using Pom-pom model » S. Bourrigault, G. Marin, A. Poitou *Macromolecules*, 36 (4), pp. 1388-1394, 2003