

174
R 51/a

Volume 52 · Number 3 · March 2013

Rheologica Acta

Published as the Official Journal
of the
European Society of Rheology



Austrian Group of Rheology
Belgian Group of Rheology
British Society of Rheology
Bulgarian Society of Rheology
Czech Group of Rheology
Dutch Rheological Society
French Group of Rheology
German Society of Rheology
Hellenic Society of Rheology
Israel Society of Rheology
Italian Society of Rheology
Nordic Rheology Society
Polish Society of Engineering Rheology
Portuguese Society of Rheology
Romanian Society of Rheology
Slovene Society of Rheology
Spanish Group of Rheology
Swiss Group of Rheology
Vinogradov Society of Rheology

SUPPORTING SOCIETIES

Australian Society of Rheology
Canadian Rheology Group
Chinese Society of Rheology
Korean Society of Rheology
Mexican Society of Rheology
The Society of Rheology, Japan

EDITORS

H. Henning Winter
Jan Vermant

 Springer

Volume 52 • Number 3 • March 2013

Part 1: Special early career issue: Trends and progress in rheology

EDITORIAL

Special issue devoted to novel trends in rheology

J. Vermant • H.H. Winter 189

ORIGINAL CONTRIBUTIONS

A self-aligning parallel plate (SAPP) fixture for tribology and high shear rheometry

C. Clasen 191

Low-dimensional intrinsic material functions for nonlinear viscoelasticity

R.H. Ewoldt • N.A. Bharadwaj 201

Non-Newtonian deterministic lateral displacement separator: theory and simulations

G. D'Avino 221

Mixtures of foam and paste: suspensions of bubbles in yield stress fluids

M. Kogan • L. Ducloué • J. Goyon • X. Chateau • O. Pitois • G. Ovarlez 237

The bulk electroviscous effect

A.S. Khair • A.G. Star 255

Flow-induced nucleation in polymer melts: a study of the GO model for pure and bimodal blends, under shear and extensional flow

K. Jolley • R.S. Graham 271

Forthcoming articles in print published online and citable with the DOI (Digital Object Identifier) can be found at springerlink.com

Indexed in/abstracted in *Science Citation Index*, *Science Citation Index Expanded (SciSearch)*, *Journal Citation Reports/Science Edition*, *SCOPUS*, *INSPEC*, *Chemical Abstracts Service (CAS)*, *Google Scholar*, *EBSCO*, *Academic OneFile*, *CEABA-VtB*, *ChemWeb*, *Current Abstracts*, *Current Contents/Physical, Chemical and Earth Sciences*, *Fluidex*, *Food Science and Technology Abstracts*, *Gale*, *GeoRef*, *INIS Atomindex*, *International Bibliography of Book Reviews (IBR)*, *International Bibliography of Periodical Literature (IBZ)*, *Materials Science Citation Index*, *OCLC*, *PASCAL*, *Polymer Library*, *SCLImago*, *Summon by Serial Solutions*, *VINITI - Russian Academy of Science*.

Instructions for Authors for *Rheol Acta* are available at

<http://www.springer.com/397>.