

# DDM “summer reading list”

PRL 100, 188102 (2008)

PHYSICAL REVIEW LETTERS

week ending  
9 MAY 2008



## Differential Dynamic Microscopy: Probing Wave Vector Dependent Dynamics with a Microscope

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THE JOURNAL OF CHEMICAL PHYSICS 147, 110901 (2017)

## Perspective: Differential dynamic microscopy extracts multi-scale activity in complex fluids and biological systems

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### REVIEW

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## Differential dynamic microscopy for the characterization of polymer systems

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Rheol Acta (2017) 56:863–869  
DOI 10.1007/s00397-017-1047-7



### RAPID COMMUNICATION

## Probe microrheology without particle tracking by differential dynamic microscopy

Alexandra V. Bayles<sup>1</sup> · Todd M. Squires<sup>1</sup> · Matthew E. Helgeson<sup>1</sup>

PHYSICAL REVIEW MATERIALS 1, 073804 (2017)

## Differential dynamic microscopy microrheology of soft materials: A tracking-free determination of the frequency-dependent loss and storage moduli

Paolo Edera,<sup>1</sup> Davide Bergamini,<sup>1</sup> Véronique Trappe,<sup>2</sup> Fabio Giavazzi,<sup>1,\*</sup> and Roberto Cerbino<sup>1,†</sup>

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