

## RECENT PUBLICATIONS - Carlsson Group

### 2013

“Stress Generation by Myosin Minifilaments in Actin Bundles”  
N. L. Dasanayake and A. E. Carlsson  
Phys. Bio. **10**, 036006:1-10 (2013)

### 2012

“Molecular Analysis of Arp2/3 Complex Activation in Cells”  
B. J. Galletta, A. E. Carlsson, and J. A. Cooper  
Biophys. J. **103**, 21452156 (2012)

“Quantitative Analysis of Approaches to Measure Cooperative Phosphate Release in Polymerized Actin”  
M. M. Burnett and A. E. Carlsson  
Biophys. J. **103**, 23692378 (2012)

“Regimes of Wave Type Patterning Driven by Refractory Actin Feedback: Transition from Static Polarization to Dynamic Wave Behavior”  
W. R. Holmes, L. Edelstein-Keshet, and A. E. Carlsson  
Phys. Biol. **9**, 046005:1-11 (2012)

“Self-Feedback in Actin Polymerization”  
A. E. Carlsson  
Adv. Expt. Med. Biol. **736**, 397-406 (2012)

“Damped and Persistent Oscillations in a Simple Model of Cell Crawling”  
P. V. Bayly, L. A. Taber and A. E. Carlsson  
J. Roy. Soc. Interface **9**, 1241-1253 (2012)

“Forced to Branch Out”  
A. E. Carlsson  
Nature Physics **8**, 259-260 (2012)

### 2011

“General Mechanism of Actomyosin Contractility”  
N. L. Dasanayake and A. E. Carlsson  
Phys. Rev. Lett. **107**, 118101:1-4 (2011)

“A Model Actin Comet Tail Disassembling by Severing”  
P. J. Michalski and A. E. Carlsson  
Phys. Biol. **13**, 046003:1-10 (2011)

“Mechanisms of Cell Propulsion by Active Stresses”  
A. E. Carlsson  
New. J. Phys. **13**, 073009:1-17 (2011)

## 2010

“Mathematical and Physical Modeling of Actin Dynamics in Motile Cells”

A. E. Carlsson and A. Mogilner

in *Actin-based Motility*, M.-F. Carrier, Ed., Springer (2010), pp. 381-412.

“Actin Polymerization Overshoots Induced by Plus-End Capping”

F. J. Brooks and A. E. Carlsson

Phys. Biol. **7**, 016008:1-8 (2010)

“Effects of Molecular-Scale Growth Processes on Observable Growth Properties of Actin Networks”

J. Zhu and A. E. Carlsson

Phys. Rev. E**81**, 031914:1-12 (2010)

“The Effects of Filament Aging and Annealing on a Model Lamellipodium Undergoing Disassembly by Severing”

P. M. Michalski and A. E. Carlsson

Phys. Biol. **7**, 026004:1-13 (2010)

“Dendritic Actin Filament Nucleation Causes Traveling Waves and Patches”

A. E. Carlsson

Phys. Rev. Lett. **104**, 228102:1-4 (2010)

“Actin Dynamics: from Nanoscale to Microscale”

A. E. Carlsson

Ann. Rev. Biophys. **39**, 91-110 (2010)