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## 2018

**Breaking the Nanoparticle Loading-Dispersion Dichotomy in Polymer Nanocomposites with the Art of Croissant-Making.**

Santagiuliana G, Picot OT, Crespo M, Porwal H, Zhang H, Li Y, Rubini L, Colonna S, Fina A, Barbieri E, Spoelstra AB, Mirabello G, Patterson JP, Botto L, Pugno NM, Peijs T and Bilotti E. *Acs Nano*.

**A fluidic device for the controlled formation and real-time monitoring of soft membranes self-assembled at liquid interfaces.**

MATA A. *Scientific Reports.Nature Publishing Group*.

**Droplet impact dynamics on textiles.**

Zhang G, Quetzeri-Santiago MA, Stone CA, Botto L and Castrejón-Pita JR. *Soft Matter vol. 14, (40) 8182-8190*.

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**Buckling vs. particle desorption in a particle-covered drop subject to compressive surface stresses: a simulation study.**

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**X-ray Imaging of Transplanar Liquid Transport Mechanisms in Single Layer Textiles.**

Zhang G, Parwani R, Stone CA, Barber AH and Botto L. *Langmuir vol. 33, (43) 12072-12079*.

**Dynamical theory of the inverted cheerios effect.**

Pandey A, Karpitschka S, Lubbers LA, Weijs JH, Botto L, Das S, Andreotti B and Snoeijer JH. *Soft Matter vol. 13, (35) 6000-6010*.

**New Bioengineering Breakthroughs and Enabling Tools in Regenerative Medicine.**

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**Slip flow past a gas-liquid interface with embedded solid particles.**

Alvaro Vidal AV and BOTTO L. *Journal of Fluid Mechanics*.

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**Chondrocyte dedifferentiation increases cell stiffness by strengthening membrane-actin adhesion.**

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**Direct calculation of anisotropic surface stresses during deformation of a particle-covered drop.**

Gu C and Botto L. *Soft Matter vol. 12, (3) 705-716*.

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## 2015

### **Co-Assembly, spatiotemporal control and morphogenesis of a hybrid protein-peptide system.**

Inostroza-Brito KE, Collin E, Sison-Mendelson O, Smith KH, Monge-Marcet A, Ferreira DS, Rodríguez RP, Alonso M, Rodríguez-Cabello JC, Reis RL, Sagués F, Botto L, Bitton R, Azevedo HS and Mata A. *Nature Chemistry* vol. 7, (11) 897-904.

### **Dipolar capillary interactions between tilted ellipsoidal particles adsorbed at fluid-fluid interfaces.**

Davies GB and Botto L. *Soft Matter* vol. 11, (40) 7969-7976.

## 2014

### **Drops on soft solids: free energy and double transition of contact angles.**

Lubbers LA, Weijs JH, Botto L, Das S, Andreotti B and Snoeijer JH. *Journal of Fluid Mechanics* vol. 747,.

### **Physical characterisation and yield stress of a concentrated *Miscanthus* suspension.**

Botto L, Preuss K, Robertson LX and Xu XY. *Rheologica Acta* vol. 53, (10-11) 805-815.

### **Stem cell differentiation increases membrane-actin adhesion regulating cell blebability, migration and mechanics.**

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## 2013

### **A geometric multigrid Poisson solver for domains containing solid inclusions.**

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### **Orientation and self-assembly of cylindrical particles by anisotropic capillary interactions.**

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