

1. Record Nr.	UNICAMPANIASUN0123128
Titolo	Contenzioso tributario / a cura di Alberto Marcheselli ; hanno collaborato Mauro Tortorelli ... [et al.]
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Autore	Green Robert D.
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Nota di contenuto CONTENTS; Preface; 1. Drying a Sessile Droplet: Imaging and Analysis of Transport and Deposition Patterns; 1.1. Introduction; 1.2. The Basic Droplet-Drying Phenomenon; 1.3. Mathematic Models; 1.3.1. Droplet shape; 1.3.2. Governing equations; 1.3.3. Boundary conditions; 1.3.3.1. Mass transfer in the vapor phase; 1.3.3.2. Heat transfer in droplet and substrate; 1.3.3.3. Momentum transfer; 1.4. Vapor Phase Transport; 1.4.1. Analytical solutions; 1.4.2. Finite element analysis; 1.5. Height-

Averaged Radial Velocity; 1.6. Full Flow Solution without Marangoni Effect

1.6.1. The derivation of the flow field
1.6.2. Finite element analysis;
1.6.3. Comparison between finite element and analytical solutions;
1.6.4. Application to deposition and stretching of DNA; 1.7. Full Flow Solutions with Marangoni Effect; 1.7.1. Expressions for the velocity field with a thermal Marangoni stress boundary condition; 1.7.2. General expressions for the velocity field with Marangoni stresses; 1.7.3. Full analytical solutions; 1.7.4. Temperature field; 1.7.5. Velocity field; 1.7.6. Surface-active contaminants; 1.7.7. Marangoni stress reverses particle deposition pattern

1.8. Manipulation of Flow for Patterned Depositions
1.9. Conclusions and Outlook; References; 2. Convective Assembly of Patterned Media;

2.1. Introduction; 2.2. Review of Prevailing Mechanisms in Convective Assembly; 2.2.1. Drop casting of colloidal suspensions; 2.2.2.

Deposition of colloidal particles in plate-withdrawal experiments or vertical deposition; 2.3. Spontaneously Patterned Colloidal Structures; 2.3.1. Patterning by exploiting the Marangoni-Benard instability; 2.3.2. Patterning by fingering instabilities or unstable fluid fronts; 2.3.3.

Patterning by the capillary instability

2.3.4. Patterning by contact line pinning and jumping
2.3.5. Patterning by spontaneous dewetting; 2.4. Templating of Colloidal Structures

Using Patterned Substrates; 2.4.1. Particle patterning exploiting surfaces of patterned surface charge; 2.4.2. Particle patterning exploiting surfaces of patterned wetting; 2.4.3. Particle patterning exploiting surfaces of patterned topography; 2.4.3.1. Capillarity based assembly in surfaces of patterned topography; 2.4.3.2. Ordering in the presence of applied fields; 2.4.3.3. The use of confinement and capillary interactions to form ordered structures

2.5. Open Issues
2.6. Conclusions and Outlook; References; 3. Materials

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3.2.3. The effect of electrolytes and surfactants

Sommario/riassunto

The use of spontaneous self-assembly, as a lithographic tool and as an external field-free means to construct well-ordered and intriguing patterns, has received much attention due to its ease of producing complex, large-scale structures with small feature sizes. An extremely simple route to highly-ordered, complex structures is the evaporative self-assembly of nonvolatile solutes (e.g., polymers, nanoparticles, carbon nanotubes, and DNA) from a sessile droplet on a solid substrate. To date, a few studies have elegantly demonstrated that self-organized nanoscale, microscale, and hierarchically
