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Gelation of Egg White "; "Comparing Nucleation and Crystallization Behaviour in Bulk and Emulsified Fat Systems "; "Emulsions, Foams and Interfaces "

"Impact of Fine Particles and their Wettability on Coalescence and Phase Inversion in Sunflower Oil + Water Systems ""Effects of Stress Relaxation in Soy Glycinin Films on Bubble Dissolution and Foam Stability "; "Measurement of Bubble Instability under Conditions of Rapid Pressure Change "; "Failure: Behaviour of Adsorbed Protein Layers: Consequences for Emulsion and Foam Stability "; "Entering and Spreading of Protein-Stabilized Emulsion Droplets at the Expanding Air-Water Interface "; "Interfacial Mechanisms Underlying Lipid Damage of Beer Foam"

"Dynamics of Protein Adsorption Layers at Liquid Interfaces ""Static and Dynamic Properties of Proteins Adsorbed at Three Different Liquid Interfaces"; "Adsorption Properties and Conformational Aspects of Proteins at the Air-Water Interface Measured by Infra-Red Reflection Absorption Spectrometry "; "Effect of Ionic Calcium on the Flocculation and Gelation of Sodium Caseinate Oil-in-Water Emulsions "; "Biopolymer Interactions "; "In situ Deformation of Hydrated Food Samples"

"Coil-Helix Transition of I-Carrageenan as a Function of Chain Regularity: The Effect of Counterion Valency ""Stability of Spray-Dried Protein-Stabilized Emulsions-Effects of Different Carbohydrate Additives "; "Glutenin Macropolymer is a Gel Formed by Particles: Average Particle Size Determines the Gel Rigidity "; "Phase Separation in Mixed Biopolymer Systems"; "Structure Evolution during Phase Separation and Gelation of Biopolymer Mixtures "; "Effect of Temperature and Hydrodynamic Conditions on Structure and Drop Size in a Phase-Separated Gelatin + Dextran System "

"Spatial Distribution of Mixed Whey Proteins at the Air-Water Interface "

Sommario/riassunto

Food scientists aim to control the taste and texture of existing food products and to formulate new structures of high quality using novel combinations of ingredients and processing methods. Food Colloids, Biopolymers and Materials describes the physical chemistry and material science underlying the formulation and behaviour of multi-phase food systems and includes:

- descriptions of new experimental techniques
- recent food colloids research findings
- authoritative overviews of conceptual issues

Essential new findings are presented and emphasis is placed on the interfacial and gelation properties of
