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Water Activity in Foods: Fundamentals and Applications

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Introduction: Historical Highlights of Water Activity Research Jorge Chirife and Anthony J. Fontana, Jr. The concept of water activity (aw) is more than 50 years old.

Water activity in foods: fundamentals and applications

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Topics have been carefully selected to provide a comprehensive understanding of the mechanisms by which water activity influences the quality, shelf life, and safety of food products. Water Activity in Foods belongs on the shelves of all food science professionals for use in product development, quality control, and food safety.

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SUMMARY Water is the most abundant constituent o ood and in terms o ood sa ety the most signi cant. ItT pres-ence, quantity and nature determines many chemical and biochemical processes important or the control o product sa ety and quality.

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Editor Information. 1. Professor of Food Engineering, Center for Nonthermal Processing of Foods, Washington State University. 2. Senior Research Scientist, Decagon Devices, Inc.

Principles of Intermediate-Moisture Foods and Related

Water activity plays an important role in the safety, quality, processing, shelf life, texture and. sensory properties of confections. Throughout history, the importance of controlling water in. food by drying, freezing, or adding sugar or salt has been recognized for preserving and. controlling food quality.

Fontana2005 - Water Activity for Confectionery Quality and.

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The water-food-energy nexus is central to sustainable development. Demand for all three is increasing, driven by a rising global population, rapid urbanization, changing diets and economic growth.

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