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Decision making comes out of the lab and into the field. Transfer material analysis from the lab to the field. SCiO's lab-grade NIR analysis enables anyone to track,

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monitor, and optimize efficiency at every stage, exactly where needed

## *SCiO - Consumer Physics*

SCiO is the world's first affordable spectrometer that fits in the palm of your hand - a revolutionary pocket molecular sensor that gives instant relevant insights

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about physical objects around...

*SCiO Pocket Molecular Sensor - Apps on  
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Unlike other spectrometers, Consumer Physics produces a very simple package based on a tiny spectrometer head, with an area of 13 mm x 19 mm. The SCiO

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Spectrometer integrates a 1.2 M pixel monochromatic CMOS image sensor from ON Semiconductor, a white LED from OSRAM and a bespoke filter/lens array.

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Consumer - Patent-to-Product Mapping

March 2017 | Ref.: KM17003 AUTHORS

- Headquartered in Sophia Antipolis, France, Knowmade is a Technology Intelligence and IP Strategy consulting company.

*Consumer Physics SCiO Molecular Sensor*

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# Download Free Scio Molecular Sensor From *Patent-to-Product* ...

According to Consumer Physics, the SCiO spectrometer is the world's first pocket size molecular sensor. The company had over 13,000 backers on Kickstarter and ended up raising over \$2.7 million.

Consumers can use SCiO to scan objects including fruit, vegetables, dairy food,

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*Consumer Physics SCiO Molecular Sensor  
Patent-to-Product ...*

Making SCiO possible is Osram's Oslon  
Black Flat SFH 4735 embeddable emitter,  
an ultra-small IRED that can be used in a  
variety of consumer and enterprise



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applications. The SFH 4735 has created a whole new field of compact, robust and low-cost sensing technology that did not exist before, making it possible to integrate spectrometers directly into mobile devices like smartphones and tablets.

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*World's First Pocket-Sized Molecular  
Sensor | OSRAM*

SCiO is the world's first affordable spectrometer that fits in the palm of your hand - a revolutionary pocket molecular sensor that gives instant relevant insights about physical objects around you. NOTE: REQUIRES A SCIO SENSOR. LEARN

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**MORE AT** [WWW.CONSUMERPHYSICS.COM](http://WWW.CONSUMERPHYSICS.COM).

*?SCiO Pocket Molecular Sensor on the  
App Store*

The SCiO (pronounced ski-?) is advertised as "the world's first pocket-sized connected micro-spectrometer."

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Developed by San Francisco and Israel-based company Consumer Physics, the SCiO has been the topic of much debate on the internet for years.

*SCiO Pocket Molecular Scanner  
Teardown - [learn.sparkfun.com](http://learn.sparkfun.com)  
According to Consumer Physics,  
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spectrometer is the world's first pocket size molecular sensor. The company had over 13,000 backers on Kickstarter and ended up raising over \$2.7 million. Consumers can use SCiO to scan objects including fruit, vegetables, dairy food, meat, fish and medications.

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*Consumer Physics Scio Molecular Sensor  
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SCiO, the pocket-sized molecular analyzer. Courtesy Many may remember SCiO, the Kickstarter sensation that in

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2014 announced the creation of a pocket-sized micro-spectrometer that could be pointed at any object – from fruit to body to medicine – and read its molecular composition and nutritional value.

*SCiO: The Unsteady Journey Of A  
Kickstarter Darling That ...*

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Development Kit for SCiO Cup. Regular price \$3,849.00. Researcher Kit for SCiO Cup. Regular price \$4,999.00. From the lab to the field. Transfer material analysis from the lab to the field, receiving dock, or production line. SCiO's lab-grade analysis enables anyone to track, monitor, and optimize efficiency at every stage, exactly

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*SCiO*

Sharon scans a wheel of cheese with a prototype version of SCiO. But these are really just the headline features of SCiO's molecular reporting schtick. Sharon says Consumer Physics' spectroscopic...

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the molecules of ...*

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smartphone. Embedded with a SCiO  
molecular sensor, it is the only phone  
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*SCiO Inside! The world's first smartphone  
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Scio works by shrinking down traditional near-infrared spectroscopy, which is used to measure how molecules vibrate and interact with light. This is where the optics come in. The device shines a...

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*Pocket sensor Scio tells you the chemical  
makeup of foods ...*

From The News Desk As soon as the  
Kickstarter-campaign for the handheld  
SCiO molecular sensor went live  
yesterday – launched by Tel Aviv-based  
Consumer Physics – I started receiving

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messages calling scam. The SCiO is a small infrared spectrometer that scans foods and supplies a breakdown to an app of their nutritional information.

In the last few decades, near-infrared

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(NIR) spectroscopy has distinguished itself as one of the most rapidly advancing spectroscopic techniques. Mainly known as an analytical tool useful for sample characterization and content quantification, NIR spectroscopy is essential in various other fields, e.g. NIR imaging techniques in biophotonics,

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medical applications or used for characterization of food products. Its contribution in basic science and physical chemistry should be noted as well, e.g. in exploration of the nature of molecular vibrations or intermolecular interactions. One of the current development trends involves the miniaturization and



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Simplification of instrumentation, creating prospects for the spread of NIR spectrometers at a consumer level in the form of smartphone attachments—a breakthrough not yet accomplished by any other analytical technique. A growing diversity in the related methods and applications has led to a dispersion of

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these contributions among disparate scientific communities. The aim of this Special Issue was to bring together the communities that may perceive NIR spectroscopy from different perspectives. It resulted in 30 contributions presenting the latest advances in the methodologies essential in near-infrared spectroscopy in a

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Food Science and Technology: Trends and Future Prospects presents different aspects of food science i.e., food microbiology, food chemistry, nutrition, process engineering that should be applied for selection, preservation, processing,

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packaging, and distribution of quality food. The authors focus on the fundamental aspects of food and also highlight emerging technology and innovations that are changing the food industry. The chapters are written by leading researchers, lecturers, and experts in food chemistry, food microbiology,

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biotechnology, nutrition, and management.

This book is valuable for researchers and students in food science and technology and it is also useful for food industry professionals, food entrepreneurs, and farmers.

Food-scanners are novel, portable and

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miniaturized devices, which operate on the principle of near-infrared spectroscopy (NIRS). According to the manufacturers, these devices are suitable for measuring a wide range of important quality parameters on fresh produce. This research evaluated the suitability of food-scanners for determining fruit quality along the

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supply chain of fruit and vegetables. Using the qualitative research approach, the first step of this research comprised interviews of experts at different positions along the fresh produce value chain in Germany. Thereby, preferences and concerns regarding the utilization and implementation of this technology for

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fresh produce were investigated. Based on these findings, non-destructive prediction models for various important quality characteristics and secondary plant constituents were developed using the model fruit tomato. In addition, food-scanner predictions of relevant quality traits on a wide range of produce from the



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fruit and vegetable assortment were examined. The evaluations showed a high degree of conformity between the results of non-destructive food-scanner predictions and conventional destructive measurement methods. The results illustrate the great potential of these novel devices for the application in everyday

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practice of fruit quality control along the  
fresh produce supply chain.

Finally, an operations management book  
to get excited about. Operations  
Management: A Supply Chain Process

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Approach exposes students to the exciting and ever-changing world of operations management through dynamic writing, application, and cutting-edge examples that will keep students interested and instructors inspired! Author Dr. Joel Wisner understands that today's students will be entering a highly competitive

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global marketplace where two things are crucial: a solid knowledge of operations management and an understanding of the importance for organizations to integrate their operations and supply chain processes. With this in mind, Wisner not only provides a clear and comprehensive introduction to operations management,

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but also gives attention to the important processes involved in linking firms' operations in a supply chain environment.

This book reviews the application of nanosensors in food and agriculture. Nanotechnology has the potential to become transformative technology that

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will impact almost all sectors. Tools like nanosensors, which detect specific molecular interactions, can be used for on-site, in-situ and online measurements of various parameters in clinical diagnostics, environmental and food monitoring, and quality control. Due to their unprecedented performance and sensitivity,

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nanobiosensors are gaining importance in precision farming. The book examines the use of nanobiosensors in the monitoring of food additives, toxins and mycotoxins, microbial contamination, food allergens, nutritional constituents, pesticides, environmental parameters, plant diseases and genetically modified organisms. It

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also discusses the role of biosensors in increasing crop productivity in sustainable agriculture, and nanosensor-based smart delivery systems to optimize the use of natural resources such as water, nutrients and agrochemicals in precision farming.

From the Chairman of the Institute for



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Global Futures, a forecast of game-changing trendsÑand how to manage and profit from them to better your life

Infants and children are regularly fed with processed foods, yet despite their importance in human development, these foods are rarely studied. This important

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book provides an exhaustive analysis of key technologies in the development of foods for babies and children, as well as the regulation and marketing of these food products. Contributors cover different aspects of food science and technology in development of baby foods, making this text an unique source of information on

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the subject. Food Science, Technology, and Nutrition for Babies and Children includes relevant chapters on infant milk formulas, essential fatty acids in baby foods, baby food-based cereals and macro- and micronutrients. This book also offers alternatives from the point of view of food technology for babies and children with

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special diet regimes associated to  
metabolic or enzymatic diseases such as  
allergy to casein, phenylalanine  
(phenylketonuria or commonly known as  
PKU) and gluten (celiac disease), or  
lactose intolerance. This book also  
addresses some nutritional aspects of  
babies and children in terms of the

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childhood obesity, child's appetite and parental feeding. With its comprehensive scope and up-to-date coverage of issues and trends in baby and children's foods, this is an outstanding book for food scientists and technologists, food industry professionals, researchers and nutritionists working with babies and children.

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Future Foods: Global Trends,  
Opportunities, and Sustainability  
Challenges highlights trends and  
sustainability challenges along the entire  
agri-food supply chain. Using an

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interdisciplinary approach, this book addresses innovations, technological developments, state-of-the-art based research, value chain analysis, and a summary of future sustainability challenges. The book is written for food scientists, researchers, engineers, producers, and policy makers and will be a

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welcomed reference. Provides practical solutions for overcoming recurring sustainability challenges along the entire agri-food supply chain Highlights potential industrial opportunities and supports circular economy concepts Proposes novel concepts to address various sustainability challenges that can



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generations

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