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functional properties of bioactive compounds from spirulina May 12 2024

consequently there is an increasing market demand for spirulina based proteins and c phycocyanin to enhance the functional properties of food pharmaceuticals and nutraceuticals while maintaining health safety regulations

learning functional properties of proteins with language Apr 11 2024

in this study we evaluated protein representation learning methods in terms of their ability to capture functional properties of proteins to be used for and ultimately overcome the critical

the preparation functional properties and application of Mar 10 2024

feature papers represent the most advanced research with significant potential for high impact in the field a feature paper should be a substantial original article that involves several techniques or approaches provides an outlook for future research directions and describes possible research applications

survey on methods for investigating protein functionality and Feb 09 2024

functional protein properties depend on its behavior in a given food matrix when exposed to the processing needed to achieve a particular product these processing steps can cause structural changes that likely will affect the functionality of the protein

a brief review of the science behind the design of healthy Jan 08 2024

plant derived carbohydrates exhibit different molecular physicochemical functional and biological properties depending on their biological origin and isolation procedures

hemp bioactive peptides nutrition functional properties and Dec 07 2023

we herein describe the composition and nutrition of hemp protein including the enzymatic production of hemp peptides hps which reportedly have hypoglycemic hypocholesterolemic antioxidative antihypertensive and immunomodulatory effects

element selection for functional materials discovery by Nov 06 2023

we demonstrate the predictive power of phaseselect in quantitative assessments of phase fields with three functional properties of interest superconducting transition temperature curie

starch structure and nutritional functionality past Oct 05 2023

functional properties the functional properties of starch include gelatinization retrogradation swelling solubility and rheological behavior the gelatinization occurs when the granules are heated in excess water

summary future trends and challenges in functional materials Sep 04 2023

the properties of functional materials depend on chemical and physical environment or surrounding factors such as pressure magnetic field electric field chemical composition ph value absorption and emission wavelength and temperature

fish gelatin characteristics functional properties Aug 03 2023

this review discusses the latest scientific literature about the main characteristics and functional properties of fish gelatin which shows the main strategies used to improve its properties as well as its applications and future potentials

origin of functionality for functional materials at atomic Jul 02 2023

understanding the origin of functionalities requires us to determine the precise atomic structure and electronic configurations of functional materials in the broken symmetry states thereby establishing the direct correlation between the structural details and functional properties of materials

bioactive compounds in foods functional properties health Jun 01 2023

bioactive compounds in foods functional properties health benefits and disease prevention a special issue of foods issn 2304 8158 this special issue belongs to the section nutraceuticals functional foods and novel foods deadline for manuscript submissions closed 15 may 2024 viewed by 11280

light induced living polymer networks with adaptive Apr 30 2023

the advent of covalent adaptable networks cans through the incorporation of dynamic covalent bonds has led to unprecedented properties of macromolecular systems which can be engineered at the molecular level

functionality of food components and emerging technologies mdpi Mar 30 2023

functional foods are generated after manufacturing traditional or innovative food products with compounds that change their properties e g by changing structure binding or interface and provide health benefits to them

bovidae based gelatin extractions method physicochemical Feb 26 2023

manipulation of extraction conditions has enabled the development of custom made gelatin with desired properties this review highlighted the various modifications of extraction and processing methods to improve the physicochemical and functional properties of bovidae based gelatin

physical review link manager Jan 28 2023

what is the origin development and future of density functional theory a powerful method for studying the properties of systems of interacting particles this paper reviews the history and achievements of the theory as well as its challenges and prospects in physics chemistry and related fields it also compares and contrasts the theory with other approaches such as the density

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density functional theory dft is an essential building block for modern theoretical physics chemistry and engineering especially those concerning electronic properties through decades of development various program packages for first principles electronic structure calculation are now available

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dynamic performance of functionally graded composite nature Sep 23 2022

the functionally graded composite structures with viscoelastic polymers inherits the excellent performance of functionally graded composites and also possesses large damping performance which has

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