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US PATENTS

+ Formulation of saffron and a method of preparation there of

The method includes the steps of triturating saffron with liquid nitrogen. Preparing an ultrasonic assisted extract in a polar or non-polar solvent. Preparing a nano-emulsion using the extract and one or more surfactants, including tween and span. The method comprising the steps of: triturating stigmas of saffron in liquid nitrogen to obtain crushed saffron; preparing an ultrasonic-assisted extract of the crushed saffron in a non-polar solvent;

adding poly oxyethylene (20) sorbitan monolaurate, glycerol, and maltodextrin in water to obtain an aqueous phase;

adding sorbitan monooleate to the extract obtaining an oil phase;

slowly adding the oil phase to the aqueous phase with continuous stirring to form a mixture;

subjecting the mixture to a high-speed homogenizer followed by an ultrasonic homogenizer to obtain an oil-in-water nano-emulsion.

+ Method for producing antimicrobial nanofilms packaging cover based on titanium nano-dioxide through extrusion for extension of food shelf-life

The method comprises the steps of providing nano-silver and nano-clay particles which are antimicrobial agents to enhance mechanical properties of packaging in food industry; and evaluating effects of nano clay and nano silver packaging on the growth of these bacteria within 6 days of shelf life keeping at 4° C. The silver and clay nanoparticles are analyzed using AFM, SEM, FESEM, EDX, FTIR and TEM, wherein the size of clay and silver nanoparticles are measured 15 nm and 35 nm, respectively. The method comprising the step of:

providing nano-silver and nano-clay particles;

keeping oven at specific temperature to vaporize any trapped water between the nano-silver and nano-clay particles;

inserting each vaporized nano-silver and nano-clay particles to a container;

mixing the nano-silver and nano-clay particles with determined amount of Low-Density Polyethylene (LDPE); inserting the mixed LDPE with nano-silver and nano-clay particles to a twin extruder; and entering masterbatch to another extruder to synthesize a final nanocomposite film, wherein the blowing cold air is provided into the twin extruder to produce the final nanocomposite film.

+ Green Synthesis of Silver Nanoparticles Using CMC Powder and Investigation of it's Antibacterial Activity

The method includes the steps of dropwise addition of silver nitrate solution to a carboxymethyl cellulose solution (1%) while stirring. The solution is subjected to ultrasonic irradiation for 30 minutes. The first indication of silver nanoparticles being synthesized can be change in the color of the solution to yellowish-brown after Ultrasonication. The solution can thereafter be subjected to microwave irradiations. After the predetermined duration, the produced silver nanoparticles can be separated from the solution. The

nanoparticles can be washed and freeze dried. The principal object of the present invention is therefore directed to a method for producing silver nanoparticles that is environment friendly. It is an object of the present invention that the method does not use toxic chemicals. It is an additional object of the present invention that the method has improved atom economy. It is another object of the present invention that the method is cost efficient. It is a further object of the present invention that the method generates lesser waste. In one aspect, disclosed is a method for production of silver nanoparticles. The silver nanoparticles can be produced by dropwise adding a silver nitrate solution to a carboxy methyl cellulose solution.

METHOD & DESCRIPTION

+ <https://patents.google.com/?assignee=Hamed+ahari&oq=Hamed+ahari>

+ https://patentscope.wipo.int/search/de/detail.jsf;jsessionid=6600A244C4F6E53161223FB59CBCBD2C.wapp2nC?docId=WO2021090086&_gid=202119

HONORS

He is the owner of

- + 3 Patent Cooperation Treaty (PCT) in us patent.
- + 3 patents in United State patent (US).
- + 3 International World Intellectual Property Organization (WIPO).

EXECUTIVE RECORDS

- + Member of Scientific Board on Food science Faculty(*Sciences and Researches Branch of Tehran, Islamic Azad University, Iran*)
- + Member of the laboratory network of Islamic Azad University.
- + Member of the Strategic Research and Technology Council Science and Research Branch of Islamic Azad University
- + Member of the Policy Council of the Young and Elite Researchers Club of the Science and Research Branch of the Islamic Azad University of Tehran
- + Member of the Food and Drug Commission of the University of Tehran Consultant and member of the Drug Commission
- + Member of the specialized board of the comprehensive exam for the doctorate of food industry science and engineering
- + Founder and technical manager of the partner laboratory of the Ministry of Health (nano-test laboratory)
- + Head of Zakaria Razi Laboratory Complex and Sheikh Baha'i Laboratory Complex
- + Responsible for Tehran Science and Research Laboratory Network
- + Senior Head of Organization WFSO
- + Manager of Food Quality lab (Corporative laboratory of Health and Medicine Education Ministry of Iran).
- + Research and Development Manager on Nano Technical Company.
- + Teaching on Tehran University & Azad Islamic university & Payam nour university
- + Associate Member of Food Protection on American food society.
- + Member of Iranian society of microbiology(Normal member).
- + Member of Iranian society of nano (Normal member).
- + Member of Iranian –Food science and Technology association (counties member).
- + Member of Iranian veterinary society (normal member).
- + Member of Iranian Biotechnology society (counties member).
- + Member of world Food safety organization.(member).
- + Member of Food science Association.

Teaching Experiences

- + Quality control for Ms students in university of Tehran.
- + Micro Nano structure for PhD students (Department of Food Science and Technology).
- + Research methodology for PhD and Ms students(Department of Food Science and Technology).
- + Novel advanced microbiology for Ms students (Department of Food Science and Technology).
- + Biotechnology for Ms students(Department of Food Science and Technology)
- + Food Microbiology and Advanced microbiology. (Department of Food Science and Technology).
- + General Microbiology for Food science (Ghaza university).
- + FOOD Microbiology for Food science (Ghaza university).
- + English language for MSc students in Tehran payam nour university.
- + Microbiology Metabolit For Ph.D students. K. Microbial Toxins For Ph.D Students.

PUBLISHED PAPERS (SCIENTIFIC JOURNAL)

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- + Lotfi S, Ahari H, Sahraeyan R: The effect of silver nanocomposite packaging based on melt mixing and sol-gel methods on shelf life extension of fresh chicken stored at 4° C. *Journal of Food Safety* 2019, 39(3):e12625.
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- + Alizadeh Z, Yousefi S, Ahari H: Optimization of bioactive preservative coatings of starch nanocrystal and ultrasonic extract of sour lemon peel on chicken fillets. *International journal of food microbiology* 2019, 300:31-42
- + Sharifan A, Ranjbar M, Ahari H: Antimicrobial Activity of Iranian Zataria multiflora Boiss. Essential Oil and Ethanolic Garlic Extract in a Protein-Rich Food. *Jundishapur journal of natural pharmaceutical products* 2018(In Press).
- + SHARIFAN A, BEHESHTI ZR, AHARI H, ANVAR A: EVALUATION OF ANTI-BACTERIAL PROPERTY OF MODIFIED NANO SILVER PACKAGING WITH PHOTOCATALYST TIO2 IN SHEEP'S HEAD AND TROTTERS. 2018.
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- + Barani S, Ahari H, Bazgir S: Increasing the shelf life of pikeperch (Sander lucioperca) fillets affected by low-density polyethylene/Ag/TiO₂ nanocomposites experimentally produced by sol-gel and melt-mixing methods. International journal of food properties 2018, 21(1):1923-1936. Revision Date:2019-September
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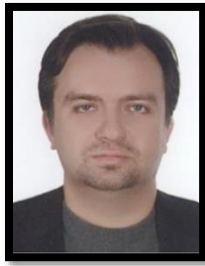
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