

Article

The Fabrication of Gold–Silver Bimetallic Colloids by Microplasma: A Worthwhile Strategy for Counteracting the Surface Activity of Avian Influenza Virus

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Abstract: In the present project, fructose-stabilized gold, silver and gold–silver bimetallic colloids have been synthesized by the electrochemical reduction of $\text{HAuCl}_4 \cdot 3\text{H}_2\text{O}$ (Au precursor) and AgNO_3 (Ag precursor), employing the atmospheric pressure microplasma technique. X-Ray Diffraction patterns of gold–silver bimetallic particles exhibit (111), (200) and (220) planes identical to gold and silver NPs depicting FCC structures. The decrease in the peak intensities of Au–Ag (111) and Au–Ag (200) as compared to those of Au (111) and (200) is due to the formation of Au–Ag alloys. The FE-SEM image of gold–silver bimetallic NPs has revealed an adequate change in morphology as compared to the morphology of gold NPs and silver NPs. The majority of the gold–silver bimetallic NPs are spherical and are uniformly dispersed. The EDS spectra of (Au–Ag) confirm the presence of metallic gold and silver. The appearance of a single Surface Plasmon Resonance (SPR) peak in the UV–VIS absorption spectra of gold–silver colloids and its position in between the SPR peaks of the UV–VIS absorption spectra of gold and silver colloids justify the formation of gold–silver bimetallic alloy particles. In DLS measurements, the size distribution of gold–silver bimetallic colloids carries a narrow range 55 to 117 nm as compared to the size distribution of gold and silver colloids. The compatibility of the sizes of these colloids and the influenza virus belonging to the Orthomyxoviruses family (size range 80–300 nm with different morphologies) are assumed to stand responsible for an effective bio-conjunction with Influenza viruses. Au–Ag bimetallic nanostructures have synergistically improved their antiviral activity against H9N2 influenza virus as compared to monometallic AuNPs and AgNPs. Thus, the Au–Ag nanostructured alliance has been proven to be more effective and is capable of manifesting high antiviral efficacy.

Keywords: microplasma fabrication; bimetallic colloids; nanostructures; analytical techniques; antiviral activity; synergy

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1. Introduction

The influenza virus is a consistent global fear and threat with the potential to cause pandemics worldwide in humans and animals [1]. The Avian Influenza Virus H9N2 belonging to the orthomyxoviridae family was initially isolated from China poultry farms. It had resulted in large-scale economic losses due to the decreased egg production and the increased mortality of chicks in the past [2]. The H9N2 virus has also been a source of sporadic infections in humans in Asia since 1998 [3]. The concerns about its pandemic

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Iva Rezić



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Antimicrobial Coatings for Biodegradable Polymers Iva Rezić,2023-09-26 This book provides new insights into research surrounding and applications of methodologies for the preparation of antimicrobial coatings These coatings have the potential to be used in medical textiles and various hospital devices The utilization of diverse nanoparticles with distinct chemical and morphological properties optimized through sophisticated mathematical models underpins the development of antimicrobial properties The resulting products achieved through state of the art formulations can be applied across a range of surfaces from woven and nonwoven textiles to 3D printed biodegradable catheters and injections The book presents the ability of nanoparticles to reinforce biodegradable polymers functionality even in contact with microorganisms which are resistant to antibiotics and presents an overview of their occurrence in material science as well as their green synthesis application and their toxicity This book will be therefore of interest to chemists and material science specialists and practitioners as well as any reader interested in the recent scientific achievements in antimicrobial resistant materials

Electrochemistry of Natural Compounds Maryam Khayatkashani,Seyed Mohammad Nabavi,Seyed Fazel Nabavi,Ana Sanches Silva,Farheen Badrealam Khan,2026-03-11 Electrochemistry of Natural Compounds explores cutting edge techniques in electrosynthesis emphasizing green chemistry principles for the sustainable production of these valuable molecules It delves into the application of natural compounds in nanoparticle biosynthesis and their subsequent electrochemical applications A significant portion of the book focuses on the investigation of natural compounds as corrosion inhibitors utilizing Tafel polarization and electrochemical impedance spectroscopy Further it provides a thorough review of voltammetric methods including cyclic voltammetry linear sweep voltammetry differential pulse voltammetry and more highlighting electrode modification strategies and optimization techniques Practical aspects such as solution preparation electrode fabrication and the impact of pH are addressed making this a hands on resource for researchers and students This book offers a unique combination of electrosynthesis corrosion inhibition and voltammetric measurement techniques specifically tailored for the analysis and application of natural compounds This holistic approach fills a gap in current literature providing researchers with a valuable resource for developing novel electrochemical methods for analyzing and utilizing natural products across diverse scientific disciplines Key Features Introduces terms and concepts used to describe electrochemical reactions Covers green chemistry oxidation and reduction early to provide a foundation for understanding later topics Explores factors that affect voltammetric methods used to determine natural compounds Addresses coverage of green nanoparticle synthesis using these methods Studies the use of cyclic voltammetry CV linear sweep voltammetry LSV chronocoulometry differential pulse voltammetry DPV and rotating disc electrode RDE [Smart Multifunctional Nano-inks](#) Ram K. Gupta,Tuan Anh Nguyen,2022-10-26 Smart Multifunctional Nano inks Fundamentals and Emerging Applications covers nano inks and how they can be used in inkjet printers for printing complex circuitry on flexible substrates or as a

paste for 3D printers Microstructures can be 3D printed using nano inks in a combination of high resolution plasma printing and subsequent rotogravure printing In addition smart multifunctional nano inks are not only required for the electronic but also in other applications such as for secure inks for currency and in immigration documents This book focuses on fundamental design concepts promising applications and future challenges of nano inks in various areas such as optoelectronics energy security and biomedical fields The current challenge for the successful industrial application of nano inks is in the preparation of a stable dispersion of advanced materials for nano inks The functionalization synthesizing and theoretical modeling provide the solution for most of the current issues but there are still remaining challenges which are covered in this comprehensive resource Outlines the major nanomaterials used in the manufacture of smart nano inks Provides information on the major industrial applications of nano inks Assesses the major challenges of using nano inks in a cost effective way and on an industrial scale

Handbook of Industrial Chemistry and Biotechnology James A. Kent,2013-01-13 Substantially revising and updating the classic reference in the field this handbook offers a valuable overview and myriad details on current chemical processes products and practices No other source offers as much data on the chemistry engineering economics and infrastructure of the industry The Handbook serves a spectrum of individuals from those who are directly involved in the chemical industry to others in related industries and activities It provides not only the underlying science and technology for important industry sectors but also broad coverage of critical supporting topics Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in chapters on Green Engineering and Chemistry specifically biomass conversion Practical Catalysis and Environmental Measurements as well as expanded treatment of Safety chemistry plant security and Emergency Preparedness Understanding these factors allows them to be part of the total process and helps achieve optimum results in for example process development review and modification Important topics in the energy field namely nuclear coal natural gas and petroleum are covered in individual chapters Other new chapters include energy conversion energy storage emerging nanoscience and technology Updated sections include more material on biomass conversion as well as three chapters covering biotechnology topics namely Industrial Biotechnology Industrial Enzymes and Industrial Production of Therapeutic Proteins

Advances in Medical and Surgical Engineering Waqar Ahmed,David Phoenix,Mark Jackson,Charaçambous P. Charalambous,2020-03-24 Advances in Medical and Surgical Engineering integrates the knowledge and experience of experts from academia and practicing surgeons working with patients The cutting edge progress in medical technology applications is making the traditional line between engineering and medical science ever thinner This is an excellent resource for biomedical engineers working in industry and academia on developing medical technologies It covers challenges in the application of technology in the clinic with views from an editorial team that is highly experienced in engineering biomaterials surgical practice biomedical science and technology and that has a proven track

record of publishing applied biomedical science and technology For medical practitioners this book covers advances in technology in their domain For students this book identifies the opportunities of research based on the reviews of utilization of current technologies The content in this book can also be of interest to policymakers research funding agencies and libraries that are contributing to development of medical technologies The Theory and Application of Colloidal Behavior Robert Herman Bogue,1924 *The Use of Colloids in Health and Disease* Alfred Broadhead Searle,1920 The Use of Colloids in Health and Disease by Alfred Broadhead Searle first published in 1920 is a rare manuscript the original residing in one of the great libraries of the world This book is a reproduction of that original which has been scanned and cleaned by state of the art publishing tools for better readability and enhanced appreciation Restoration Editors mission is to bring long out of print manuscripts back to life Some smudges annotations or unclear text may still exist due to permanent damage to the original work We believe the literary significance of the text justifies offering this reproduction allowing a new generation to appreciate it *Inorganic Colloid Chemistry - Volume I: The Colloidal Elements* Harry Boyer Weiser,2007-03 PREFACE THE Author of this very practical treatise on Scotch Loch Fishing desires clearly that it may be of use to all who had it He does not pretend to have written anything new but to have attempted to put what he has to say in as readable a form as possible Everything in the way of the history and habits of fish has been studiously avoided and technicalities have been used as sparingly as possible The writing of this book has afforded him pleasure in his leisure moments and that pleasure would be much increased if he knew that the perusal of it would create any bond of sympathy between himself and the angling community in general This section is interleaved with blank sheets for the readers notes The Author need hardly say that any suggestions addressed to the case of the publishers will meet with consideration in a future edition We do not pretend to write or enlarge upon a new subject Much has been said and written and well said and written too on the art of fishing but loch fishing has been rather looked upon as a second rate performance and to dispel this idea is one of the objects for which this present treatise has been written Far be it from us to say anything against fishing lawfully practised in any form but many pent up in our large towns will bear us out when we say that on the whole a days loch fishing is the most convenient One great matter is that the loch fisher is depend ent on nothing but enough wind to curl the water and on a large loch it is very seldom that a dead calm prevails all day and can make his arrangements for a day weeks beforehand whereas the stream fisher is dependent for a good take on the state of the water and however pleasant and easy it may be for one living near the banks of a good trout stream or river it is quite another matter to arrange for a days river fishing if one is looking forward to a holiday at a date some weeks ahead Providence may favour the expectant angler with a good day and the water in order but experience has taught most of us that the good days are in the minority and that as is the case with our rapid running streams such as many of our northern streams are the water is either too large or too small unless as previously remarked you live near at hand and can catch it at its best A common belief in regard to loch fishing is that the tyro and the

experienced angler have nearly the same chance in fishing the one from the stern and the other from the bow of the same boat Of all the absurd beliefs as to loch fishing this is one of the most absurd Try it Give the tyro either end of the boat he likes give him a cast of ally flies he may fancy or even a cast similar to those which a crack may be using and if he catches one for every three the other has he may consider himself very lucky Of course there are lochs where the fish are not abundant and a beginner may come across as many as an older fisher but we speak of lochs where there are fish to be caught and where each has a fair chance Again it is said that the boatman has as much to do with catching trout in a loch as the angler Well we dont deny that In an untried loch it is necessary to have the guidance of a good boatman but the same argument holds good as to stream fishing

Silver Colloids Ronald J. Gibbs,1999 **Colloidal Chemistry** A. Goel,2006
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