

Green Synthesis Of Gold Nanoparticles From The Leaf

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Green Synthesis Of Gold Nanoparticles

Small-sized gold nanoparticles (AuNPs) were prepared in the extract of *Sargassum carpophyllum* which had protective and reductive effects. The method is green, clean, and simple. The Gold nanoparticles prepared by using *Sargassum carpophyllum* extract (SAuNPs) have good biocompatibility and are suitable for biosensors, tumor hyperthermia and food safety testing.

Green synthesis of gold nanoparticles using *Sargassum*

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There are reports on the plant-mediated synthesis of gold nanoparticles. Ghoreishi and co-workers reported on the synthesis of gold nanoparticles using the flower extract of *Rosa damascene*. Studies also demonstrate that the flavanoids and polyphenols of the flower are responsible for the formation of quasi-spherical nanoparticles.

Green synthesis of gold nanoparticles and their

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anticancer ...

Various methods invented and developed for the synthesis of gold nanoparticles that increases daily consumed. According to this method, including potential environmental pollution problems and the complexity of the synthesis, in this study, the feasibility of using the leaves extract of *Stevia rebaudiana* (SR) for the reduction of gold ions to nanoparticles form have been studied.

Green synthesis of gold nanoparticles using Stevia ...

The green synthesis of gold nanoparticles (AuNPs) is of great interest, since their large-scale application in the biomedical sector, the so-called nanomedicine, is planned.

(PDF) Application of green synthesis of gold nanoparticles ...

Green synthesis of silver and gold nanoparticles using *Crataegus oxyacantha*. extract and their urease inhibitory activities. Shujat Ali. <https://orcid.org/0000-0002-0633-7152>. School of Food and Biological Engineering, Jiangsu University, Zhenjiang, 212013 PR China. Search for more papers by this author. Misal Bacha.

Green synthesis of silver and gold nanoparticles using ...

Green synthesis of gold nanoparticles from waste macadamia nut shells and their antimicrobial activity against *Escherichia coli* and *Staphylococcus epidermis* Huu Dang, Derek Fawcett, Gerrard Eddy Jai Poinern* Accepted: INTRODUCTION Using gold (Au) nanoparticles as a platform technology in several biomedical applications such as biosensors,

Green synthesis of gold nanoparticles from waste macadamia ...

simple and eco-friendly method to synthesise gold nanoparticles (AuNPs) using *C. maxima* peel extract as reducing and capping agents. The synthesised AuNPs were characterised by UV-visible spectrum, X-ray diffraction (XRD), transmission electron microscope (TEM) and Fourier-transform infrared spectroscopy (FTIR). The

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Green synthesis of gold nanoparticles using Citrus maxima ...

The synthesis of gold nanoparticles (Au-NPs) is performed by the reduction of aqueous gold metal ions in contact with the aqueous peel extract of plant, *Garcinia mangostana* (*G. mangostana*). An absorption peak of the gold nanoparticles is observed at the range of 540–550 nm using UV-visible spectroscopy.

Green Synthesis of Gold Nanoparticles Using Aqueous ...

The aqueous fraction of *Polyscias scutellaria* leaf extract (PSE) has been used as a reducing agent and stabilizer in the green synthesis of gold nanoparticles (AuNPs). UV-Vis spectrophotometry, particle size analyzer (PSA), Fourier transform infrared (FTIR) spectroscopy, transmission electron microscopy-selected area electron diffraction (TEM-SAED), and X-ray diffraction (XRD) were used to characterize AuNPs.

Green Method for Synthesis of Gold Nanoparticles Using ...

In this paper we report on a facile, cost effective and environmental friendly green synthesis method of gold and silver nanoparticles (NPs) by using quercetin as reducing agent. The obtained NPs were characterized by transmission electron microscopy (TEM), energy dispersive spectroscopy (EDS), dynamic light scattering (DLS) and UV-Vis spectroscopy and parameters such as pH, ionic strength and temperature, effectively affecting shape and size of NPs, have been carefully studied and optimized.

Green Synthesis and Characterization of Gold and Silver ...

Green synthesis of gold nanoparticles using a *Cordyceps militaris* extract and their antiproliferative effect in liver cancer cells (HepG2) Green synthesis of gold nanoparticles using a *Cordyceps militaris* extract and their antiproliferative effect in liver cancer cells (HepG2)

Green synthesis of gold nanoparticles using a Cordyceps ...

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Green synthesis of gold nanoparticles using several extracts and spices extracts was conducted, in which aqueous extracts $\text{HAuCl}_4 \cdot 3\text{H}_2\text{O}$ reduce to Au^0 has establishing themselves in specific crystal phase. Synthesized nanoparticles were confirmed by the color change of auric chloride which is yellow.

Green synthesis of gold nanoparticles using plant extract

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In the present study, biosynthesis of gold nanoparticles (AuNPs) by the cells (cells-AuNPs) and cell-free extracts (extracts-AuNPs) of a new fungus *Mariannaea* sp. HJ was reported.

Green synthesis of gold nanoparticles using fungus ...

Plant-mediated synthesis of nanoparticles is a green chemistry approach that connects nanotechnology with plants. Novel methods of ideally synthesizing NPs are thus thought that are formed at ambient temperatures, neutral pH, low costs and environmentally friendly fashion.

Green synthesis of nanoparticles: Their advantages and

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Green synthesis of nanoparticles and its potential. application. Imtiyaz Hussain ... (2004) Gold nanoparticles: assembly, supramolecular chemistry, quantum-size-related properties, and

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(PDF) Green synthesis of nanoparticles and its potential

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Green synthesis of gold (CB-AuNps) and silver (CB-AgNps) nanoparticles using *Cibotium barometz* root extract was highlighted. CB-AuNps were synthesized almost instantly and CB-AgNps were formed after 25 min in a heated aqueous extract. The formation of CB-AuNps and CB-AgNps was detected at 548 and 41 ...

Green synthesis of gold and silver nanoparticles using ...

The biological synthesis of gold nanoparticles by using the leaf extract of *Coleus amboinicus* and size of gold nanoparticles ranged from 4.6 to 55.1 nm. The spherical nanoparticles produced in the beginning of the reaction were stable due to the

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protection by sufficient biomolecules [44].

Synthesis of Gold Nanoparticles using Plant Extract: An ...

Recently, synthesis of gold nanoparticles (AuNPs) is the subject of a lot of studies due to various applications in medicine, agriculture, and industry. The development of non-toxic and safe methods such as green chemistry to produce AuNPs is obviously recommended.

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