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Green Synthesis Of Gold Nanoparticles

There are reports on

the plant-mediated

synthesis of gold

nanoparticles. Ghoreshi

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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 anticancer**

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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

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Green synthesis of gold nanoparticles using Sargassum ...

2.3. Synthesis of gold nanoparticles by using the leaf extract. 0.1 g of dried extract of stevia leaf is added into 50 ml deionized water and then stirred for 1 h in a magnetic stirrer at room temperature. Coarse filtering is employed

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prior to centrifuging the extract at 4000 rpm for 30 min to remove the heavy biomaterials in it.

Green synthesis of gold nanoparticles using Stevia ...

A facile bottom-up “green” synthetic route of gold nanoparticles (Au NPs) is described, using a leaf extract of the Malvaceae plant *Corchorus olitorius* as a reducing and

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stabilizing agent. The size and shape of the obtained nanoparticles were modulated by varying the amounts of the metal salt and the broth extract in the reaction medium.

Successful Green Synthesis of Gold Nanoparticles using a ...

The aqueous fraction of *Polyscias scutellaria* leaf extract (PSE) has been used as a

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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.

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**Green Method for
Synthesis of Gold
Nanoparticles Using**

...

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

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confirmed by the color change of auric chloride which is yellow.

Green synthesis of gold nanoparticles using plant extract

...

The present work reports the green synthesis of gold nanoparticles using the aqueous extract of fenugreek (*Trigonella foenum - graecum*) as reducing and

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protecting agent. The pathway is based on the reduction of $AuCl_4^-$ - by the extract of

fenugreek. This method is simple, efficient, economic and nontoxic.

Green synthesis of gold nanoparticles using *Trigonella* ...

Hence, during the last two decades, there has been an increasing emphasis on developing

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straightforward, economically viable, and green synthesis methods for metallic nanoparticles. From an economic and green chemistry perspective, nontoxic solvents, environmentally benign reducing agents, and renewable materials are desirable assets during nanoparticle preparation . In terms of green synthesis methods, water is commonly utilized as

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an environmentally

benign solvent, rather

than toxic ...

Green synthesis of gold nanoparticles using aspartame and ...

...

Kasturi et al. [8] have reported the synthesis of silver and gold nanoparticles using purified apiin compound extracted from henna leaf. The use of edible mushroom and natural

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honey in the synthesis of Au and Ag nanoparticles have also been reported very recently [9], [10].

Green synthesis of gold and silver nanoparticles using

...

Few researchers made significant efforts to prepare metal oxide nanoparticles via green synthesis (GS) process for energy storage applications, which is a

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mild, simple, efficient
and environmental...

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**(PDF) Green
synthesis of
nanoparticles and
its potential ...**

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

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such as green

chemistry to produce

AuNPs is obviously

recommended.

Green Synthesis of Gold Nanoparticles Using Barberry and

...

Extracellular or

intracellular extracts of

fungi are perfect

candidates for the

synthesis of metal

nanoparticles due to

the scalability and cost

efficiency of fungal

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growth even on industrial scale. There are several methods and techniques that use fungi-originated fractions for synthesis of gold nanoparticles.

Green synthesis of gold nanoparticles by thermophilic ...

The biological synthesis of gold nanoparticles by using the leaf extract of *Coleus amboinicus* and size of gold

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nanoparticles ranged from 4.6 to 55.1 nm. The spherical nanoparticles produced in the beginning of the reaction were stable due to the protection by sufficient biomolecules [44].

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

Green chemistry has an important role due to its contribution to unconventional

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synthesis methods of gold and silver nanoparticles from plant extracts, which have exhibited antimicrobial potential, among other outstanding properties. Biodiversity-rich countries need to collect and convert

Green Synthesis of Gold and Silver Nanoparticles from

...

Extracellular or

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intracellular extracts of fungi are perfect candidates for the synthesis of metal nanoparticles due to the scalability and cost efficiency of fungal growth even on industrial...

Green synthesis of gold nanoparticles by thermophilic ...

We developed a simple, non-toxic, and green method for water-soluble AuNP

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synthesis by treating gold (III) chloride trihydrate (HAuCl_4) with a hot aqueous extract of the *Ganoderma* spp. mycelia. The formation of biologically synthesized AuNPs (bio-AuNPs) was characterized by ultraviolet (UV)-visible absorption spectroscopy, X-ray diffraction (XRD), Fourier transform infrared spectroscopy

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(FTIR), energy
dispersive X-ray (EDX),
dynamic light
scattering (DLS), and
transmission electron

...

**A green chemistry
approach for
synthesizing
biocompatible ...**

The green synthesis of
nanoparticles is
influenced by the
incubation/reaction
time, which greatly
affects the shape, size,

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nanoparticles. The

duration of
incubation/reaction

time is required for
completion of the

reaction medium to
achieve the optimum
synthesis and stability

of synthesized
nanoparticles.

**Green Synthesis - an
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proteins), drugs, plants

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and microorganisms
which are used in
green synthesis of gold
nanoparticles due to th
e combine reducing
and capping property
of different
biocomponents ...

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