2022 | Volume Volume - 7 - Issue Issue - 1

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Research Article

Open Access Research Article PTZAID:IJNNN-7-142

A Theoretical Study on the Optical Spectroscopic Properties of Indigoids@B36

Published On: March 30, 2021 | Pages: 032 - 037

Author(s): Tugba Tugsuz*

Indigoids represent a family of environmentally friendly organic semiconductor materials. In this study, we aim to fine-tune the optoelectronic properties and semiconductor performance of indigoids by careful choice of the functional groups. We used Density Functional Theory (DFT) to predict the electron transport behavior of indigoids by calculating their electronic ...

Abstract View Full Article View DOI: 10.17352/2455-3492.000042

Review Article

Open Access Review Article PTZAID:IJNNN-7-143

Discussion on the influence of nanoparticle characteristics in New Coronavirus Disease-19 and severe acute respiratory syndrome Coronavirus 2

Published On: March 31, 2021 | Pages: 038 - 042

Author(s): Shenguo Wang*

In the paper, why New Coronavirus Disease-19 (COVID-19) should belong to a class of protein nanoparticle and possessed ultra-small size and super-penetration capability, as well as effect of the COVID-19 characteristic on follows phenomena were discussed. (1) The difference existed on toxicity, transmission speed and diffusion range of the COVID-19 and Severe acute re ...

Abstract View Full Article View DOI: 10.17352/2455-3492.000043

Open Access Review Article PTZAID:IJNNN-7-141

A review on nanotechnology and its application in modern veterinary science

Published On: February 25, 2021 | Pages: 026 - 031

Author(s): Kalkidan Mamo Woldeamanuel, Fufa Abunna Kurra and Yonas Tolosa Roba*

The term nanotechnology refers to material processing on the atomic or molecular scale, especially for the construction of microscopic level devices with the ability to calculate, function, and organize. The microscopic level typically refers to the size range of 1–100 nm. We opt to review the application of nanotechnology in veterinary medicine for this specific arti ...

Abstract View | Full Article View | DOI: 10.17352/2455-3492.000041

Open Access Review Article PTZAID:IJNNN-7-140

A Review on Gold Nanoparticles (GNPs) and their Advancement in Cancer Therapy

Published On: January 19, 2021 | Pages: 019 - 025

Author(s): Shabbir Hussain and Muhammad Amjad*

There are approximately 18 million cancer cases have been observed per year worldwide according to Global cancer therapy (GLOBOCAN). Chemotherapy, radiotherapy and surgery have been mostly used for cancer therapy. The maximum tolerated dose is currently being used to cure patients. The incorporated advancement of modern nanoparticle-based techniques will be important ...

Abstract View | Full Article View | DOI: 10.17352/2455-3492.000040

Open Access Review Article PTZAID:IJNNN-7-139

Therapeutic applications of nanozymes and their role in cardiovascular disease

Published On: January 18, 2021 | Pages: 009 - 018

Author(s): Naima Nashat and Zeshan Haider*

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Abstract View | Full Article View | DOI: 10.17352/2455-3492.000039

Open Access Review Article PTZAID:IJNNN-7-137

Nanotechnology: A boon in cancer therapy: Review

Published On: January 09, 2021 | Pages: 001 - 006

Author(s): Sonia Sangwan* and Raman Seth

In cancer, there is uncontrolled cell division, which results in invasion and metastasis. Carcinomas are a significant cause of mortality worldwide. Recently, radiotherapy and chemotherapy are the primary treatment measures that are being used to destroy cancer cells. However, these modalities kill normal cells of the body, along with the destruction of cancer cells. ...

Abstract View | Full Article View | DOI: 10.17352/2455-3492.000037

Letter to Editor

Open Access Letter to Editor PTZAID:IJNNN-7-144

Credit to pioneering work on carbon nanotubes

Published On: May 18, 2021 | Pages: 043 - 044

Author(s): Eugene A Katz*

This letter gives a credit to a pioneering paper by A. M. Nesterenko, et al. (Izvestia Akademii Nauk SSSR, Met. 1982, [in Russian]) that is almost unknown to scientific community. On the basis of Transmission Electron Microscopy images and X-ray Ray Diffraction patterns of “carbon multi-layer tubular crystals” the authors suggested a model of nanotube structure format ...

Abstract View | Full Article View | DOI: 10.17352/2455-3492.000044

Mini Review

Open Access Mini Review PTZAID:IJNNN-7-138

The role of temperature in plasmon sensors in physical and biological research

Published On: January 12, 2021 | Pages: 007 - 008

Author(s): LV Shmeleva and AD Suprun*

Recently, sensors that use the phenomenon of plasmon resonance have been widely used [1]. In this case, biosensors are of particular interest [2]. The plasmon resonance method is attractive in that it has a sufficiently high sensitivity to

changes in concentration (the most widespread use) of the medium under study (analyte). But this method can be no less attractive ...

Abstract View | Full Article View | DOI: 10.17352/2455-3492.000038