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Research Article

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Synthesis, characterization, anti-cancer evaluation, and DNA-binding study of new bay-substituted perylene derivatives

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Two new perylene derivatives 1,7-di(3,5-diamino-pyrimidoxyl) perylene-3,4,9,10- tetracarboxylic acid bisanhydride (4) and 1,7-di(2-[3-[(4-amino-2-methylpyrimidin-5-yl)methyl]-4-methyl-1,3-thiazol-3-ium-5-yl]) ethoxyperylene-3,4,9,10-tetracarboxylic bisanhydride (6) have been synthesized. We aimed to study their interactions with G-quadruplex (G4) structures as potent ...

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NGS analysis of unexplained Community-Acquired Pneumonia (CAP) cases in South Korea

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Author(s): Sooyeon Lim*, Jae Kyung Lee, Han Sol Lee, Ji Yun Noh, Joon Young Song, Hee Jin Cheong and Woo Joo Kim*

In general, pneumonia has known to be closely associated with respiratory infection of viruses, bacteria, fungi, and parasites. In South Korea, pneumonia is a leading cause of death that continues to threaten public health every year. Through the tertiary hospital-based influenza surveillance system in South Korea, nasopharyngeal swab specimens were obtained from pati ...

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The predictors of occupationally related injury in employees of Pasteur Institute

of Iran

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Author(s): Rouzbeh Bashar, Korosh Holakoyee Nayini*, Ramin Mehrdad, Maryam Fazeli, Masoumeh Arab and Nazanin Shabansalmani

Background: Needlestick Injuries (NSI) are a critical occupational risk for healthcare workers. Therefore, the present study investigated the incidence and risk factors of NSI among employees of the Pasteur Institute of Iran, one of the largest and oldest biological research institutes in the country, who are at high risk of occupational exposure to biological agents. ...

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Antimicrobial activities of untreated and grape vinegar treated selected vegetables against common food borne pathogens

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Author(s): Jyotsana Singh and Amar P Garg*

In the post-Covid-19 era, plant-based diets and products have become more popular. Fruit vinegar is considered a healthy drink, rich in bioactive compounds like organic acids, polyphenols, flavonoids and alkaloids that provide several beneficial properties. Fruit vinegar also contains several beneficial nutrients like amino acids, sugars, vitamins and minerals. They p ...

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Review Article

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Reviewing the Bio-Applications of $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+}$, Dy^{3+} Phosphor

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Strontium aluminate (SrAl_2O_4) phosphor nanoparticles with Eu^{2+} , and Dy^{3+} co-doping exhibit high brightness and long afterglow properties, storing light energy and glowing slowly under different conditions. It has been widely studied that

SrAl₂O₄:Eu²⁺, Dy³⁺ (SAO) phosphor nanoparticles with a green visible emission can penetrate deep into the tissue, show low self-fluo ...

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Preparation, production and characteristics of sugarcane vinegar

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Author(s): Jyotsana Singh, Neha Bisht and Amar P Garg*

Sugarcane is one of the main crops worldwide, and it has an important impact on environmental issues. Sugarcane is used in daily routine life in many ways like as vinegar, jiggery, juices etc. In India sugarcane crop is best cultivated in the west U.P. Sugarcane original vinegar drink with high nutritional quality was produced from fresh sugarcane juice using the yeas ...

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