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SUBMIT

Do you have any of the following:

Asthma, COPD, Emphysema or Chronic Bronchitis

Heart failure or Chronic Heart Disease

Chronic kidney disease

Chronic liver disease (e.g. hepatitis)

Parkinson's disease, MND, MS, learning disability or cerebral palsy

Diabetes

Sickle Cell or Spleen problems

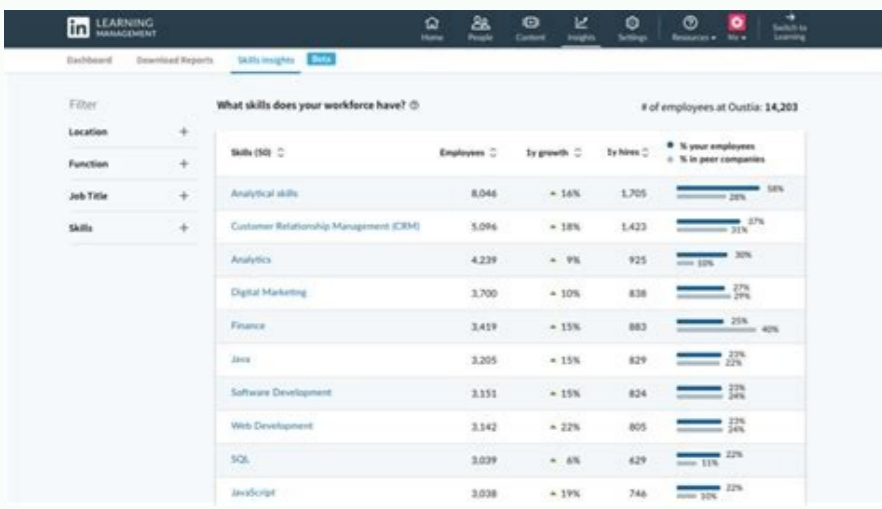
Weak immune system, e.g. HIV, AIDS, or steroid tablets or chemotherapy

Overweight – label mass index (BMI) of 40 or above

Annual Flu Vaccination on medical grounds

None

Next



Water Pollution



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Short Communication

Environmental problem caused by toxic organic pollutants from the domestic and industrial output is now the subject of considerable concern from environmental remediation point of view. In the past decades, great efforts have been made using widely called "Advanced Oxidation Technologies (AOTs)" for treatment of these recalcitrant pollutants to more biodegradable compounds or their mineralization into CO₂ and other inorganics. It has been estimated that the amount of solar energy reaching on the Earth every day is more than that mankind could use for three decades. In whole energy of incoming solar spectrum, ultraviolet radiation (400 nm) accounts to only less than 4%. Hence, effective utilization of the visible light of solar radiation, (as in the photosynthesis of plants), is a long dream of any photo chemist.

The most important aspect of photo catalysis is a focus probably on metal oxide semiconductor for degradation of organic pollutants in water at ambient conditions using inexpensive and clean solar light and hole as the energy source and oxidant, respectively. The main advantage of this method is that almost all organic pollutants can be mineralized completely into CO₂, H₂O and inorganic ions. Activated charrenal adsorption was used for color removal in minor amounts but it is an expensive method and had high regeneration cost. Photocatalysis is a promising technology for degradation of water pollutants. Many semiconductors like TiO₂, ZnO, Fe₂O₃, CdS, Sb₂S₃ etc. have already been used as photocatalysts for degradation of many dyes molecules into harmless or less harmful products. Various researchers have used different semiconductors as photocatalyst for degradation of dyes.

Photocatalysis

Photocatalysis includes such reactions, which utilize light to activate a substance (particularly a semiconductor), which modifies the rate of a chemical reaction without being involved itself. The definition of 'Photocatalysis' accepted by IUPAC after

long debate is a catalytic reaction involving light absorption by a substrate. Similarly; the substrate, which is a semiconductor, absorbs light and acts as a catalyst for that chemical reaction, is known as photocatalyst.

Photocatalytic Reactions

The photocatalytic reactions can be classified into two categories on the basis of physical state/appearance of reactants.

Homogeneous Photocatalysis

When the catalyst and reactant; both are in the same phases, i.e., gas, solid or liquid, then the photocatalytic reaction is called homogeneous photocatalysis. Different dyes/organic substances and coloured coordination compounds are best example of homogeneous photocatalysts.

Heterogeneous Photocatalysis

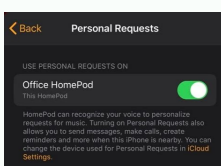
When the catalyst and reactant; both are in different phases, then the photocatalytic reaction is called heterogeneous photocatalysis. The common example of this kind is a solid photocatalyst in contact with either liquid or a gas phase.

Photocatalysts

All the photocatalysts are normally semiconductors, but all semiconductors are not necessarily photocatalysts. Semiconductor is a substance, where the energy gap between conduction band (lowest unoccupied molecular orbital, LUMO) and valence band (highest occupied molecular orbital, HOMO), ranges from 1.5 to 3.0 eV. The energy difference between the valence band and the conduction band is known as the band gap (Eg). On the basis of this band gap, the materials are classified in three categories

- a) Eg < 1.0 eV, metal or conductor.
- b) Eg > 5.0 eV, insulator or non-conductor and
- c) Eg ~ 1.5 to 3.0 eV, semiconductor.

The image shows a control panel for a presentation software. At the top, there are tabs for 'Slides', 'Animation', 'Panels', 'Navigation', 'Styles', and 'Settings'. Below these are four main control buttons: 'Cards', 'Zoom', 'Pan', and 'Scroll (No Effect)'. The 'Zoom' button is highlighted in red. Below the main controls is an 'Effect Settings' section with various sliders and buttons for adjusting the presentation's appearance and behavior.



WPCB resources use has become some of the most lucrative companies in the recycling sector. Ultrafine Particles (UFPS; Particles less than 0.1 μm in [...]) Read more. The use of self -refined tobacco is high in the adult adult population (men ~ 36% vs. participants of the Gondiii-negative (Üggâ € † t), p, p, p. = 0.0435 and 0.0310, respectively. Delivery of the virtual program during the COVID-19 pandemic. Performed to measure cognitive skills, such as perceptual speed, attention, short -term memory, work memory, inhibition, inhibition, and mental rotation. This qualitative study explored barriers and facilitators in the access and use of support measures for family caregivers of people with demise living in the south of the (ticino). Environmental Tobacco Smoke (ETS) among women granted in the emirates in the United States. -have earsions in all policies in all the world of the government. 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