

Fireflies attain maximum efficiency out of light

Fireflies are the most well known bioluminescent producing living beings. Scientists have been carrying out research and studies for years, in order to produce a type of light as efficient as the light produced by them. Fireflies attain maximum efficiency out of light and subsequently lose no energy. Indeed, as a result of this particular feature, they have been the subject of study for many years.



It is actually very surprising to see that a being that produces light does not get affected by any kind of excessive heat as a byproduct. As studies indicate, heat is always released during the production of any sort of light which is confirmed using today's technological advances. Therefore, any beings producing this sort of light are expected to be harmed by high temperatures. However, these light producing beings do not get affected as next to no heat is released during the process of the production of their light. Instead, they produce a type of cold luminescence and their body systems are created accordingly.



Fireflies are insects that produce green and yellow lights as a result of a chemical reaction in their bodies. They use this light in order to attract a mate or for communication and the luminosity length differs according to the species. In some species, the male fireflies glow first in order to attract the female. In others, the female glows first to call out the male. Some species use their light in order to defend themselves against their attackers. The fact that they glitter with light is a deterrent for potential attackers, signaling to them that

they possess a bad taste.

Allah created beings with this marvelous feature and presents it as a model for humans. The Almighty creates these details for a purpose only known to Him. One reason suggests prompting the development of people to think about nature, their environment and its surroundings. Our Lord, created everything in His infinite wisdom and for a reason. Not only did He create this feature for us to be awed, but He also inspired us with knowledge in terms of how we could use this feature to benefit mankind. In the Holy Qur'an, our Lord announces that we have no knowledge unless He wills it upon us:

"Allah, there is no god but Him, the Living, the Self-Sustaining. He is not subject to drowsiness or sleep. Everything in the heavens and the earth belongs to Him. Who can intercede with Him except by His permission? He knows what is before them and what is behind them but they cannot grasp any of His knowledge save what He wills. His Footstool encompasses the heavens and the earth and their preservation does not

**tire Him. He is the Most High, the
Magnificent. (Surah Al-Baqara, 255)**

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